STEREO INTEGRATED AMPLIFIER

A-87/97

SERVICE MANUAL

(M-97/97M/99LD/99M)

KENWOOD

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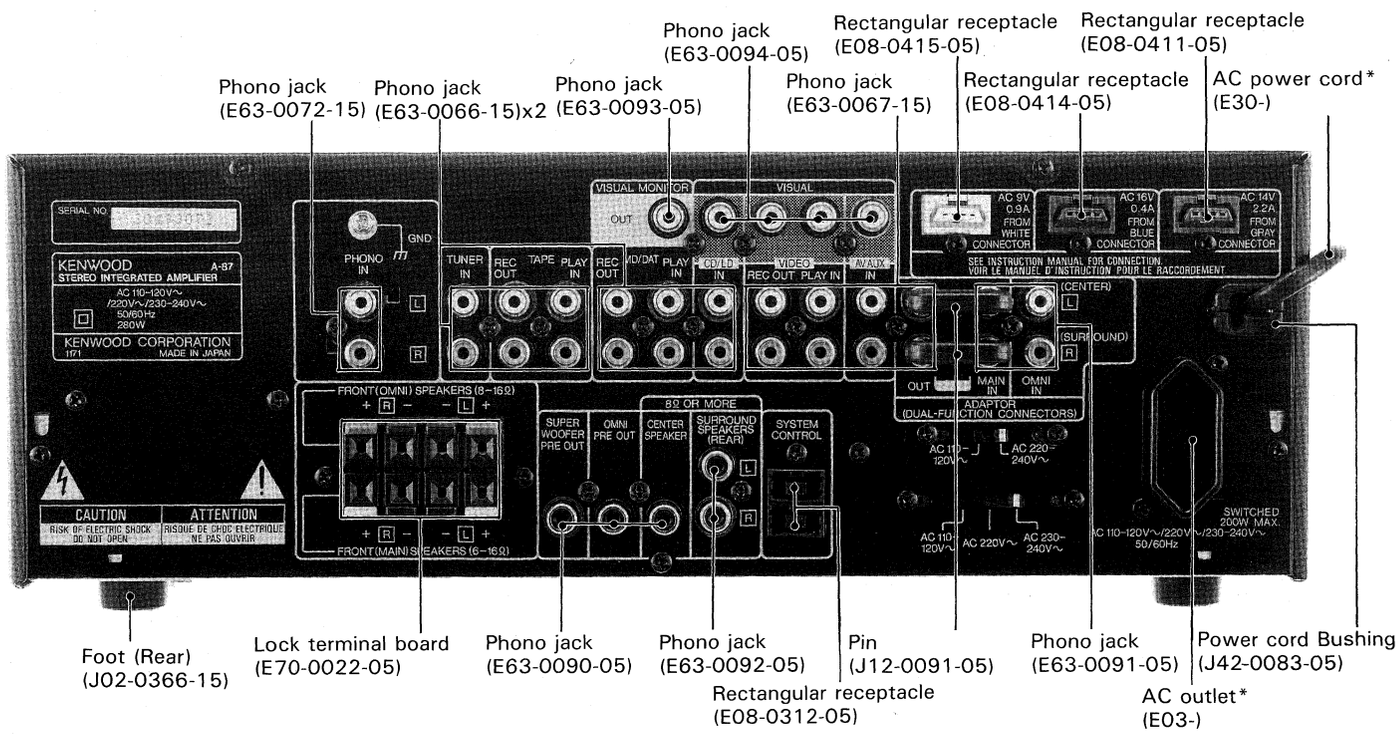
B51-4735-00 (S) 2318

[A-87]



*Refer to parts list on page 22.

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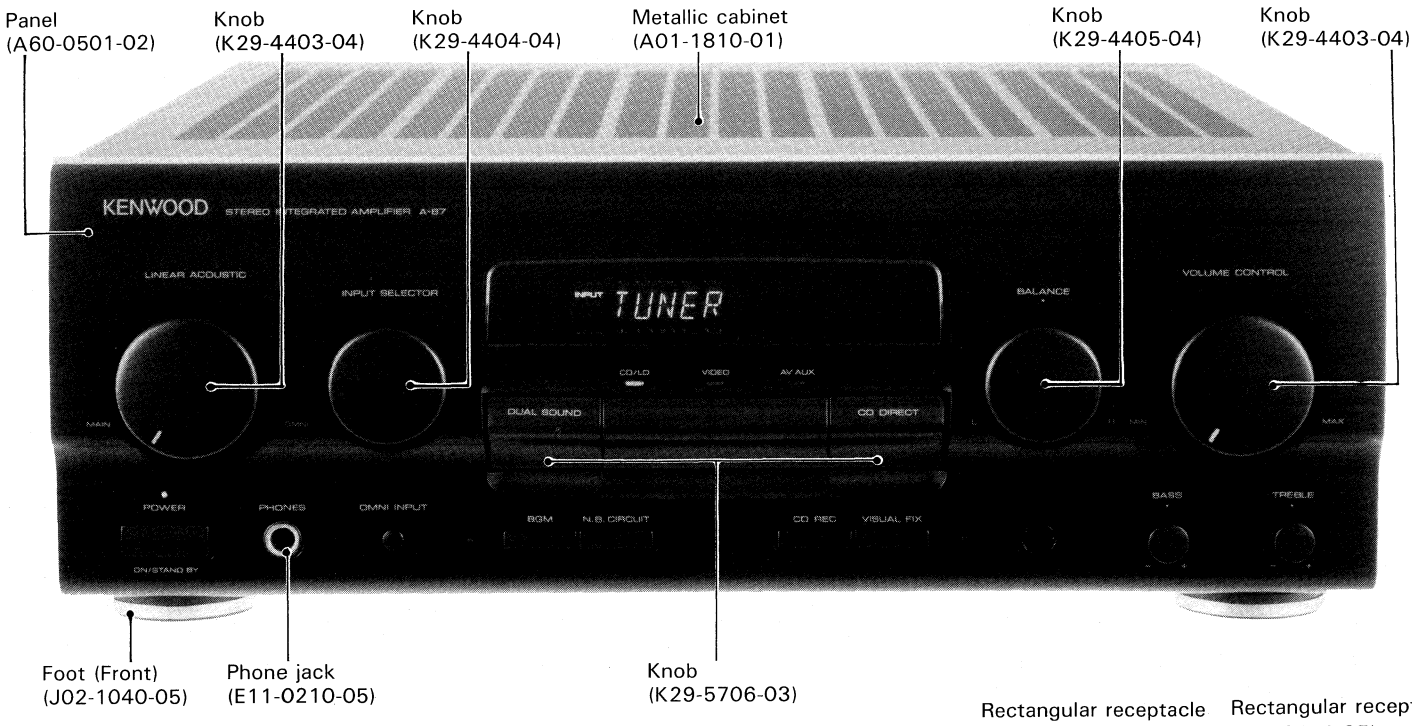
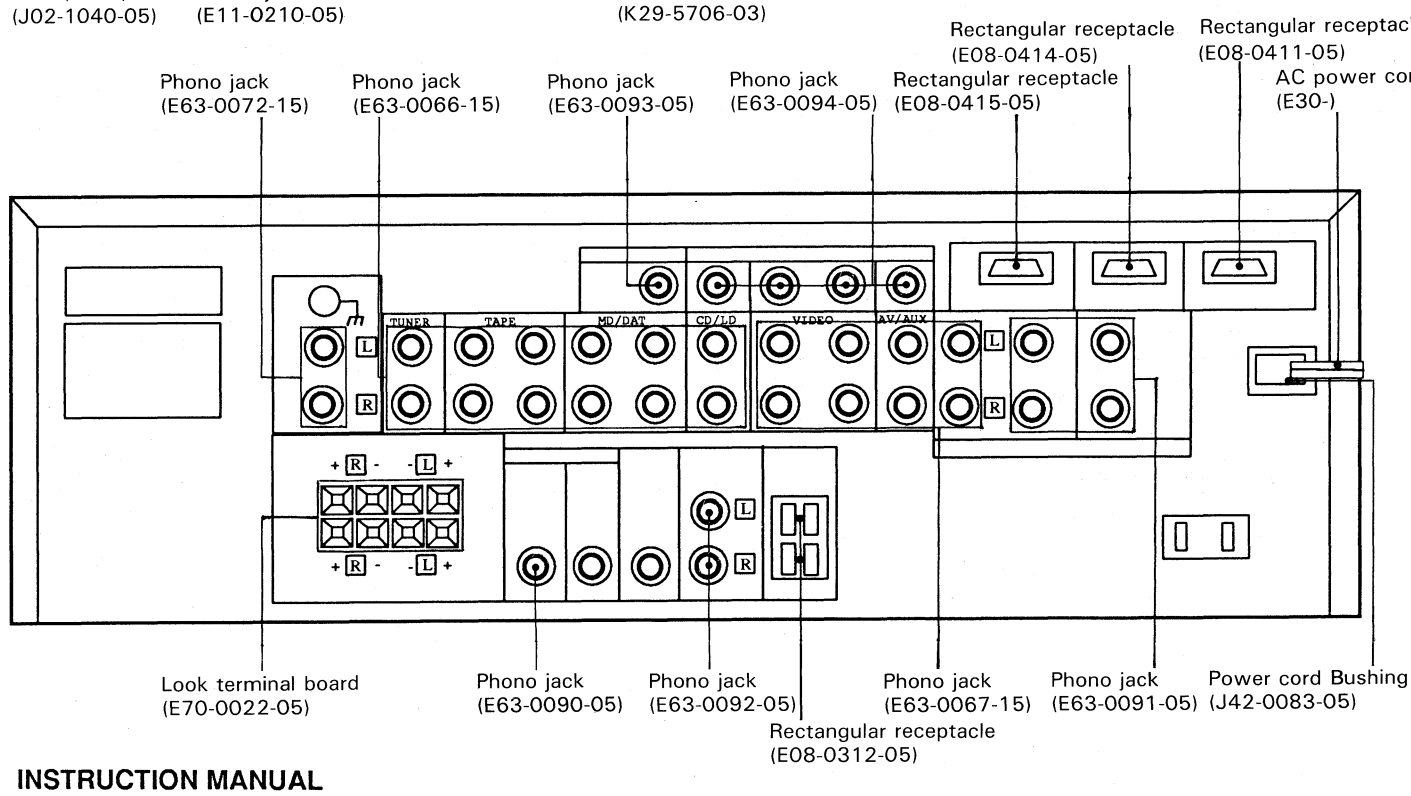




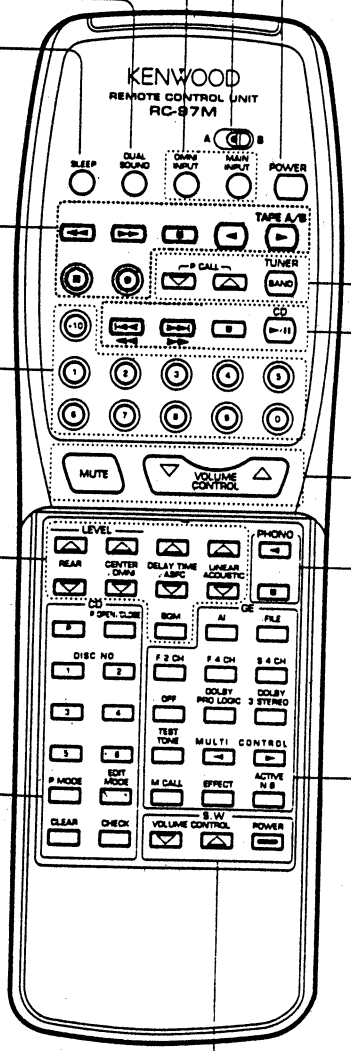
INSTRUCTION MANUAL

B60-1351-00 ENGLISH
B60-1352-00 SPANISH M
B60-1353-00 CHINESE M

*Refer to parts list on page 22.

REMOTE CONTROL UNIT

REMOTE CONTROL UNIT (X94-1050-11)
BATTERY COVER (F07-0721-23)



A B switch

Keys in the hashed section can be used in two ways. The two functions can be switched according to the purpose of each operation.

- Keys which have two names printed on or around them, one printed in white characters and the other in brown characters, provide the functions printed with brown characters when the A/B switch is set to A, and provide the functions printed with white characters when the switch is set to B.
- Other keys function regardless of the A B switch position.

Input selector keys

MAIN INPUT key: Press to select the source component to be played.
OMNI INPUT key: Press to select the component to be played through the omni-directional speakers (optional) for dual sound play or in the DSP presence mode.

POWER key

DUAL SOUND key

SLEEP timer key

Tuner operation keys

BAND key, P.CALL keys

CD player basic operation keys

and keys, key, key
When the A B switch is set to A: and keys

Cassette deck operation keys

To operate deck A, set the A B switch to A. (The ● and ❚❚ keys are invalid in this case.)
To operate deck B, set the A B switch to B.

Numeric keys

Function as the numeric keys of the CD player when the CD input is selected.
Function as the numeric keys of the tuner when the TUNER input is selected.

VOLUME CONTROL keys

Press these keys to adjust the volume. When these keys are pressed, the VOLUME CONTROL knob on the main unit rotates and the indicator on it blinks at high speed.

MUTE key

Press to mute the sound temporarily.

Amplifer operation keys

LINEAR ACOUSTIC key, BGM key.
Surround function keys.
These keys are used when the graphic equalizer (optional GE-970) is connected, REAR LEVEL key, CENTER OMNI LEVEL keys, DELAY TIME ASFC keys.

Analog disc turntable operation keys

These keys are used to operate the analog disc turntables of KENWOOD (optional P-78, P-66)

CD operation keys

As the M-97M and M-97 use the same model of remote control unit, some of its keys cannot be used with the M-97
Keys usable with the M-97M system:
All keys can be used.
Keys usable with the M-97 system:
P MODE key, EDIT MODE key, CLEAR key, CHECK key

Graphic equalizer (optional GE-970) operation keys

Keys related to graphic equalizing
AI key, FILE key, M.CALL key, EFFECT key, ACTIVE N.B. key
Keys related to surround and presence effects
F 2CH key, F 4CH key, S 4CH key, OFF key, DOLBY PRO LOGIC key, DOLBY 3 STEREO key, TEST TONE key, MULTI CONTROL key

Super woofer operation keys

POWER key, VOLUME CONTROL keys
(Optional)

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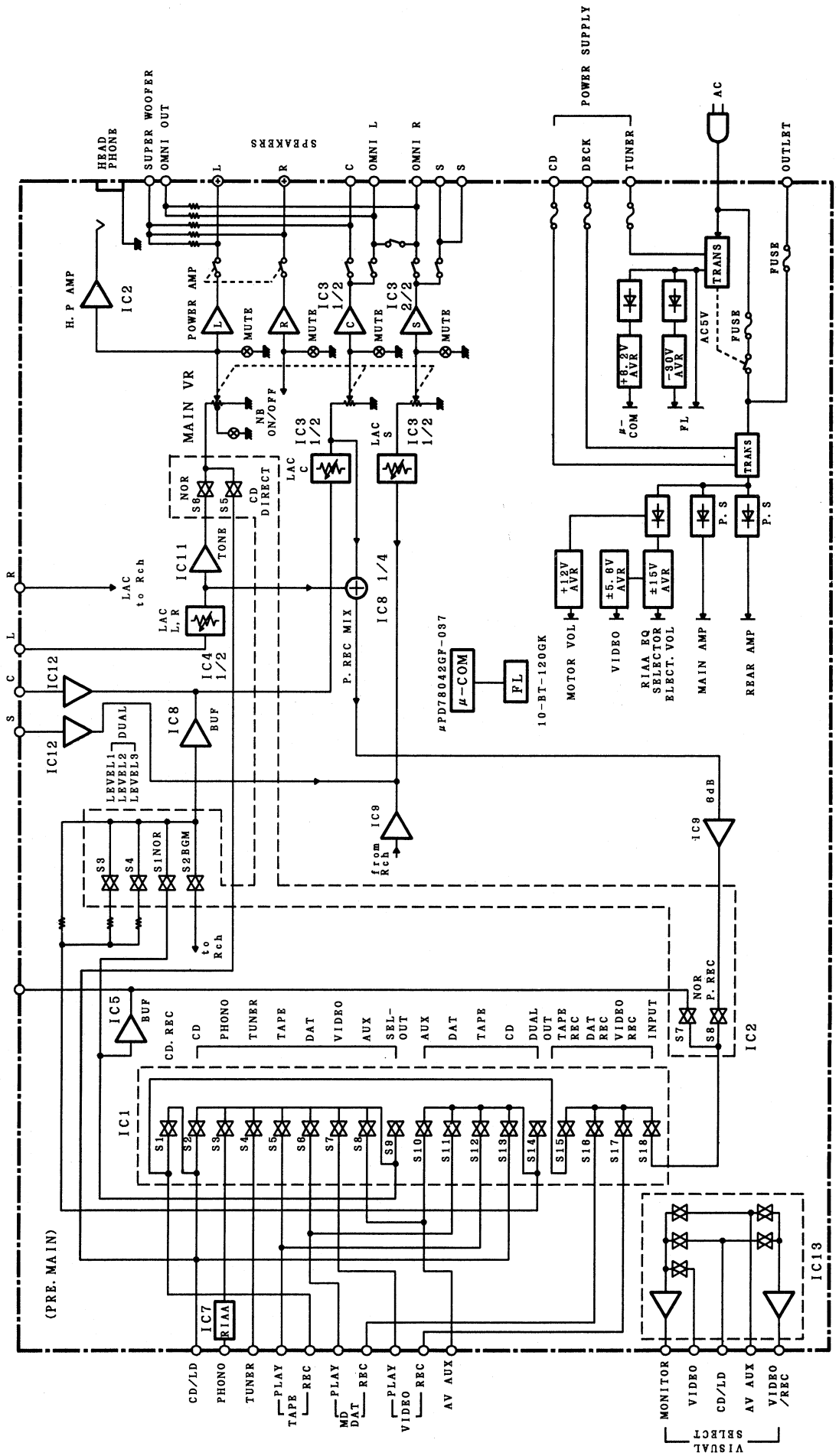
BLOCK DIAGRAM



CIRCUIT DESCRIPTION

TEST MODE

Test mode bymeans of main unit keys

(1) Setting method

Plug the power cord in the AC electrical outlet while pressing the CD DIRECT key.

(2) Cancellation method

The test mode set at the beginning is cancelled when the power cord is unplugged from the AC electrical outlet.

(3) Contents

① Automatic POWER ON

The POWER turns necessarily ON, and all functins are initialized when the power cord is plugged into the AC electrical outlet while pressing the CD DIRECT KEY.

② ALL LIT mode

ALl FL and all LED light up without fail when the power cord is plugged into the AC electrical outlet while pressing the CD KEY. After that, the equipment switches to the ordinary indication mode when any key of the main unit is operated.

③ Master/LAC volume automatic motor VR UP/DOWN

The motor VR carries out the following sequence of operations when the CD REC key is operated during the test mode by means of the main unit keys

16-second UP → 16-second DOWN → STOP

The CD REC key is inhibited during these operations.

④ Check of the operations of all circuits by means of the main unit keys

The MUTING function, which is carried out only with the remote controller, can be operated also with the N.B key of the main unit during the test mode by means of the main unit keys.

⑤ MUTE signal output

Ordinary operation should be carried out during the test mode by means of the main unit keys.

Initialization

(1) Setting method

- The equipment is initialized by plugging the power cord in the AC electrical outlet while pressing the POWER key.
- The equipment is initialized when the power cord is unplugged and then plugged in the AC electrical outlet during the test mode by means of the main unit keys and the test mode by means of serial communication.

(2) Contents

All functions are initialized. (Including test mode).

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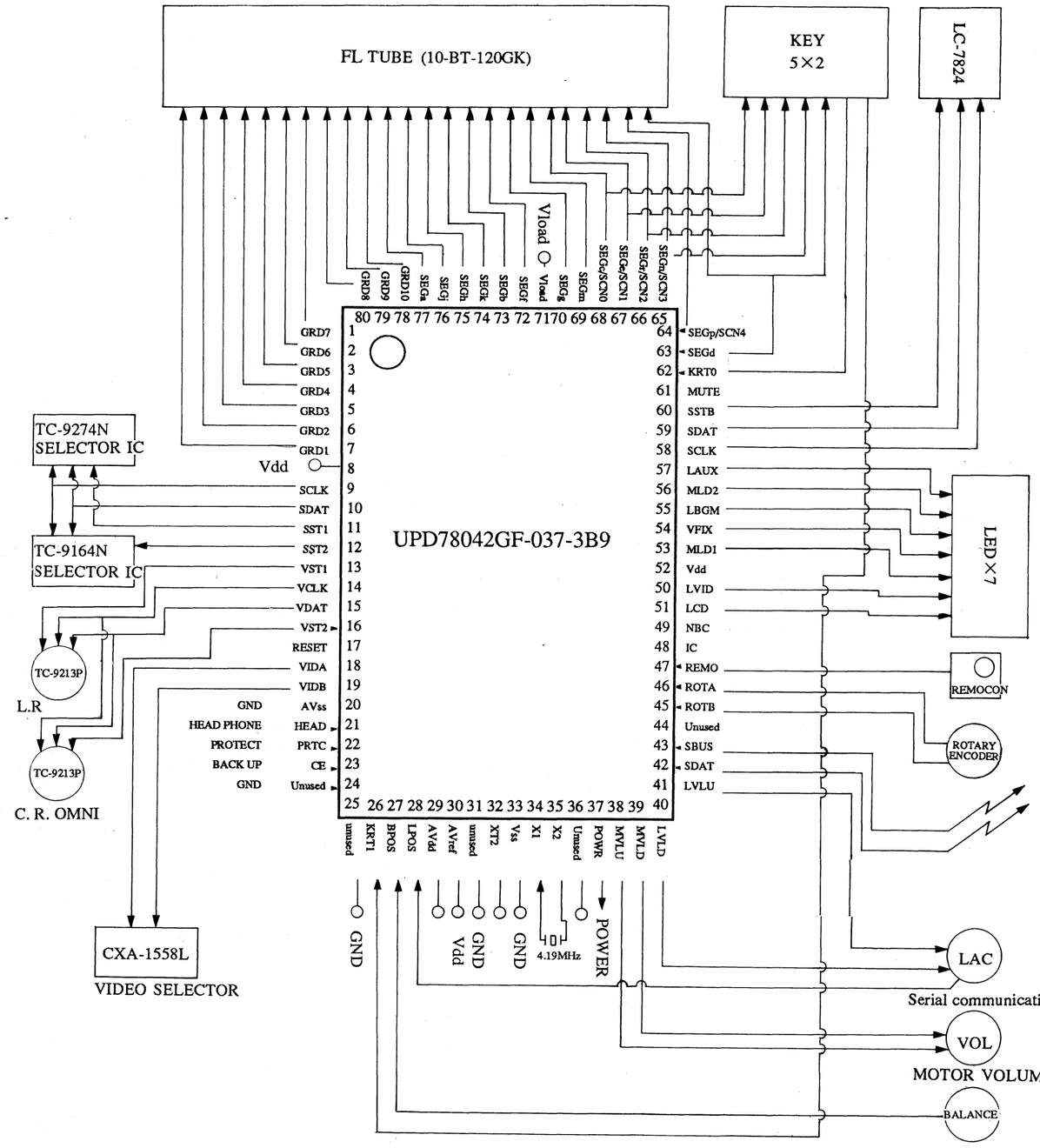
CIRCUIT DESCRIPTION

Microprocessor μPD78042GF-037-3B9 (X11: IC-101)



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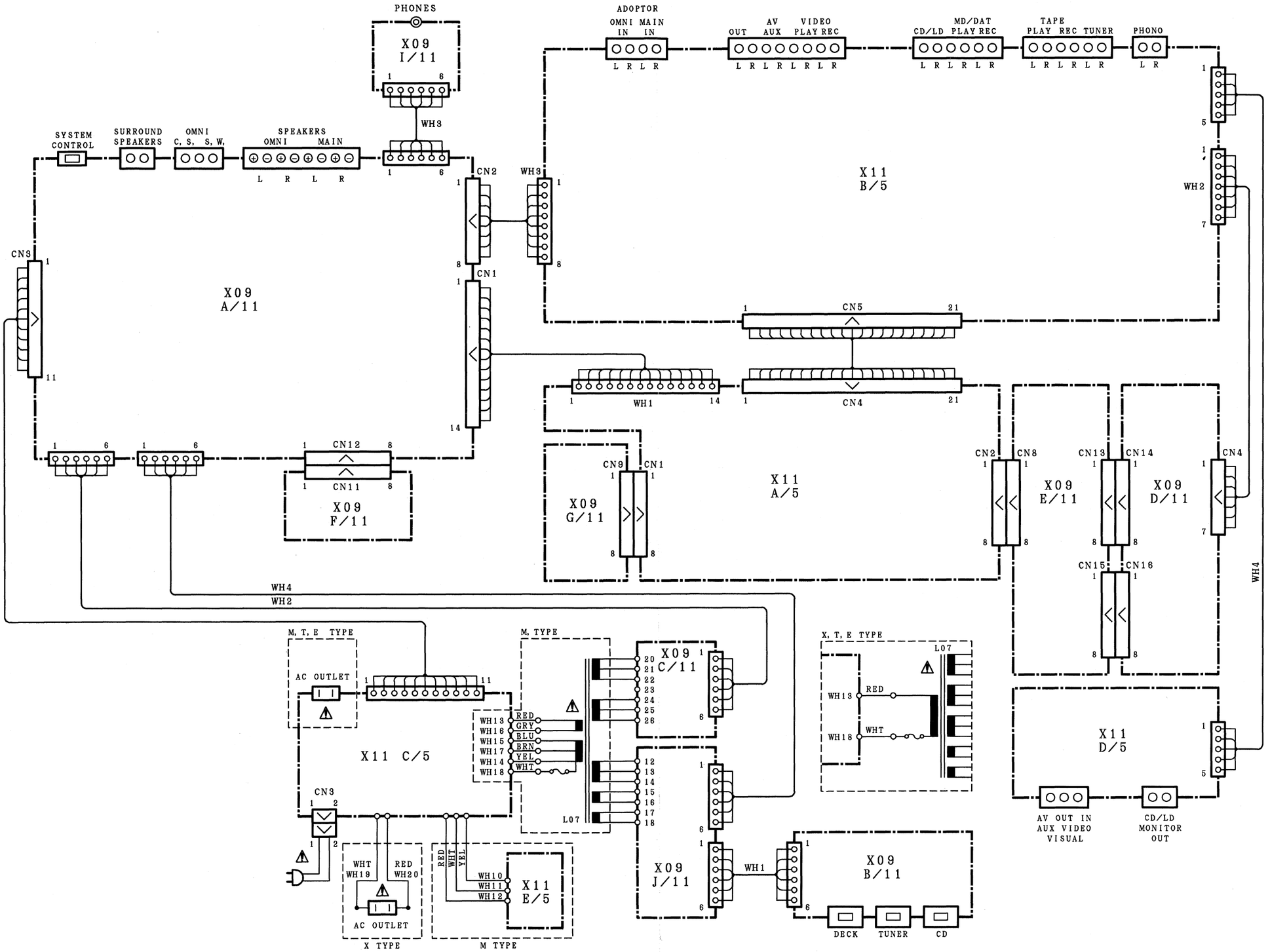
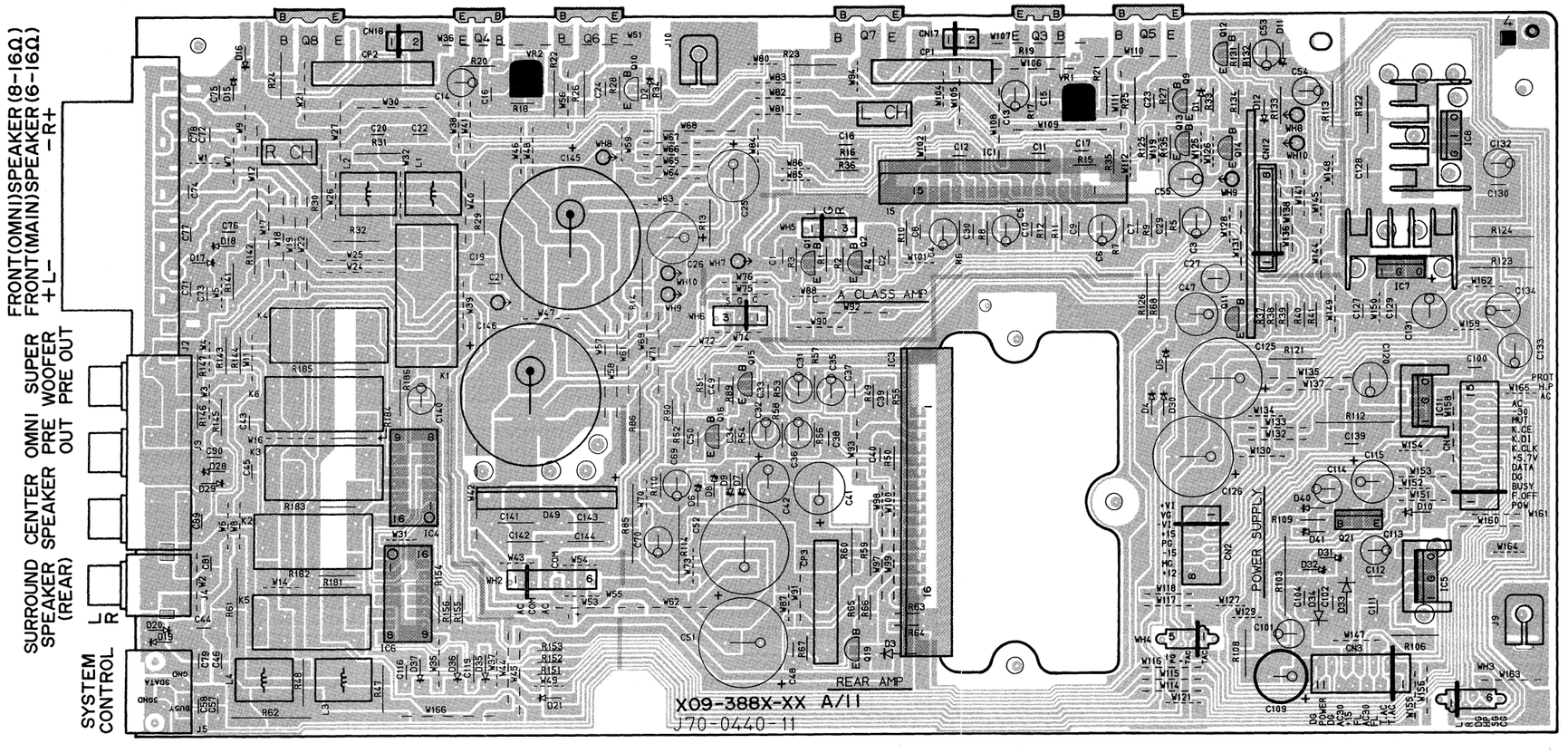
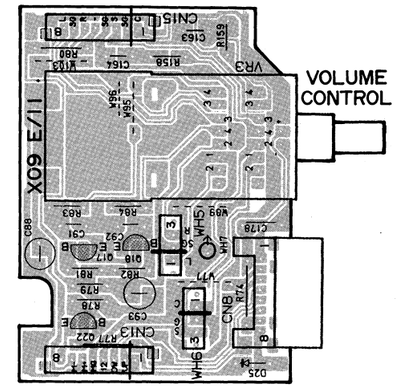
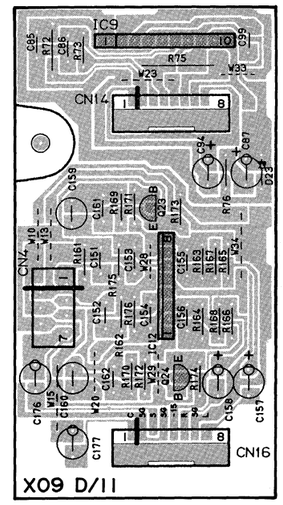
WIRING DIAGRAM

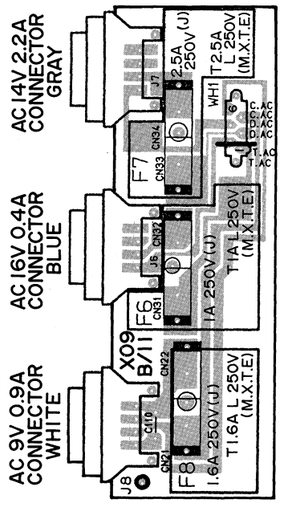


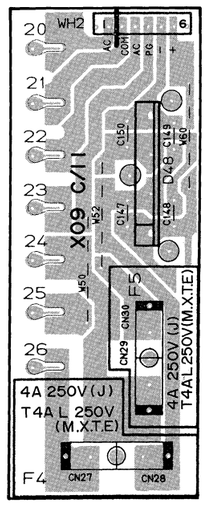
PC BOARD (Component side view) AUDIO UNIT (X09-388X-XX)

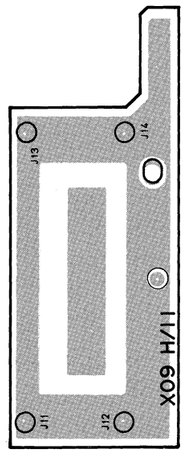


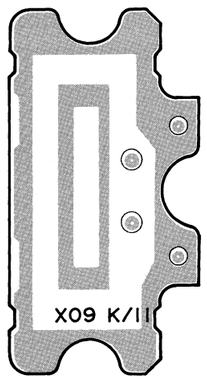


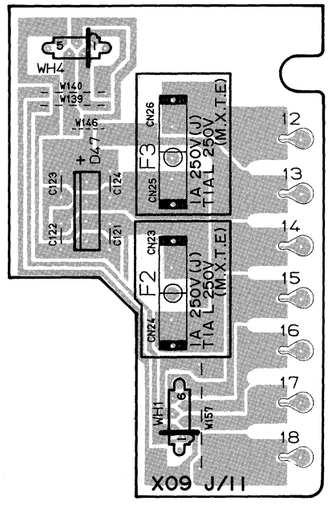


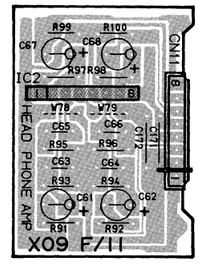


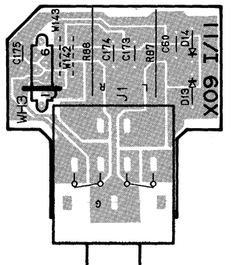


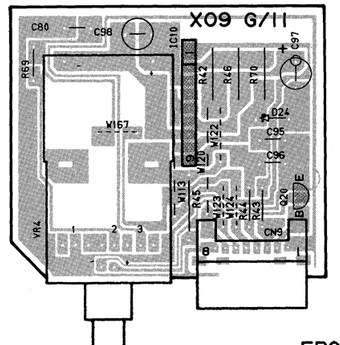






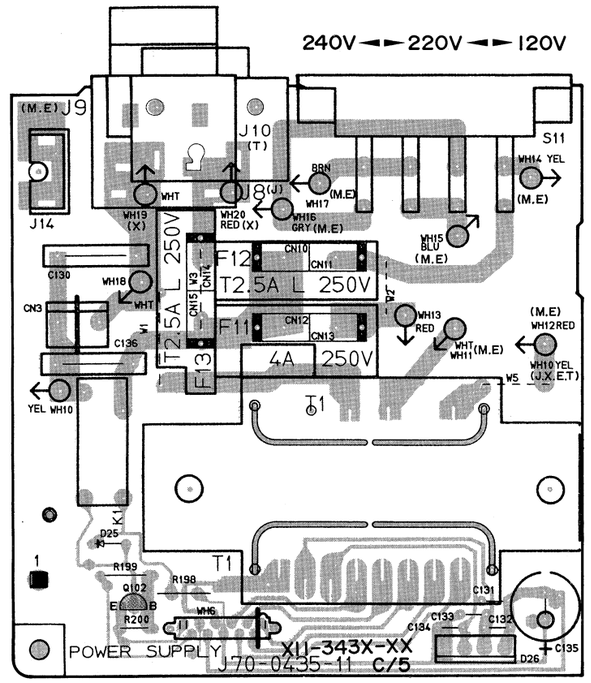


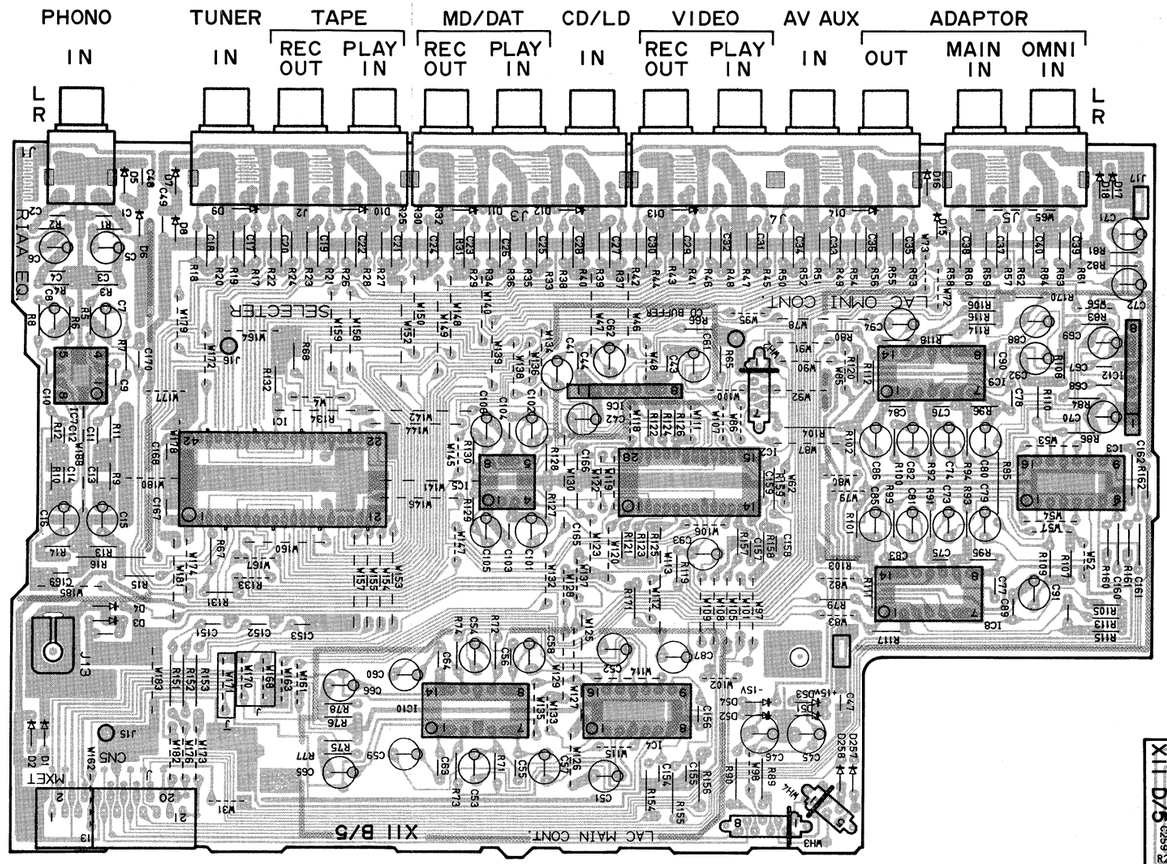


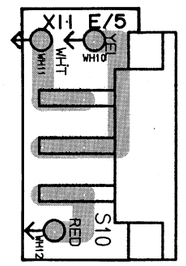


Refer to the schematic diagram for the values of resistors and capacitors.

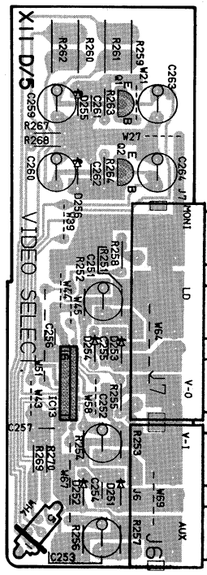
PC BOARD (Component side view) CONTROL UNIT (X11-343X-XX)

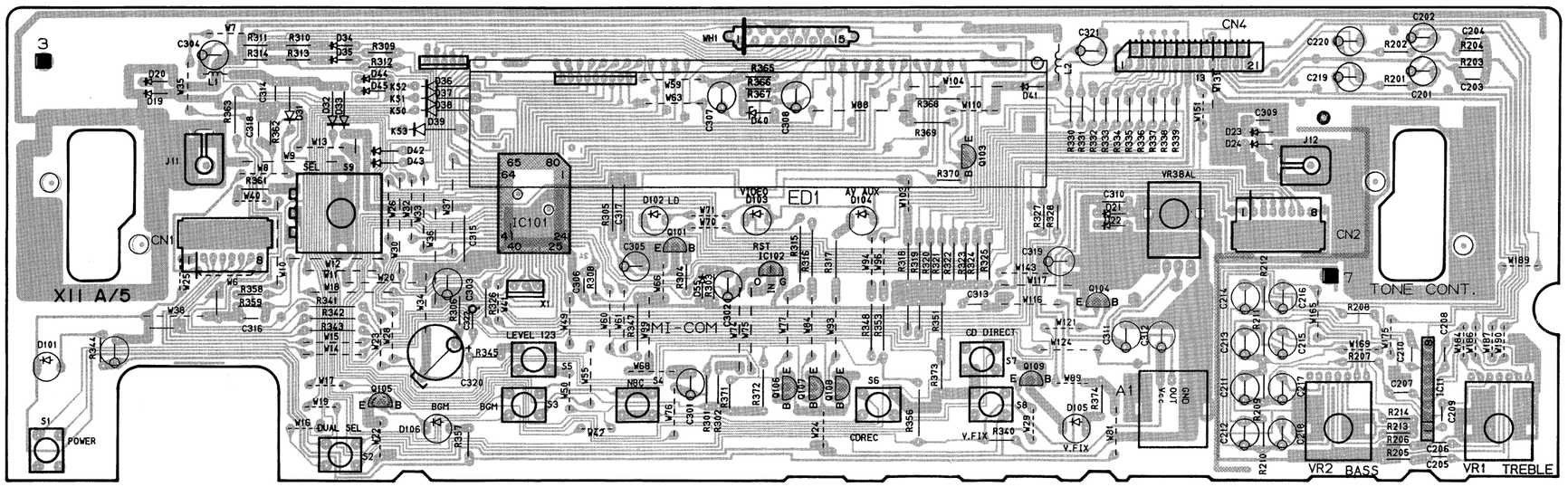






(M,E TYPE)
AC 110-120V AC 220-240V





FRONT

Refer to the schematic diagram for the values of resistors and capacitors.

X11-343X-XX B/5

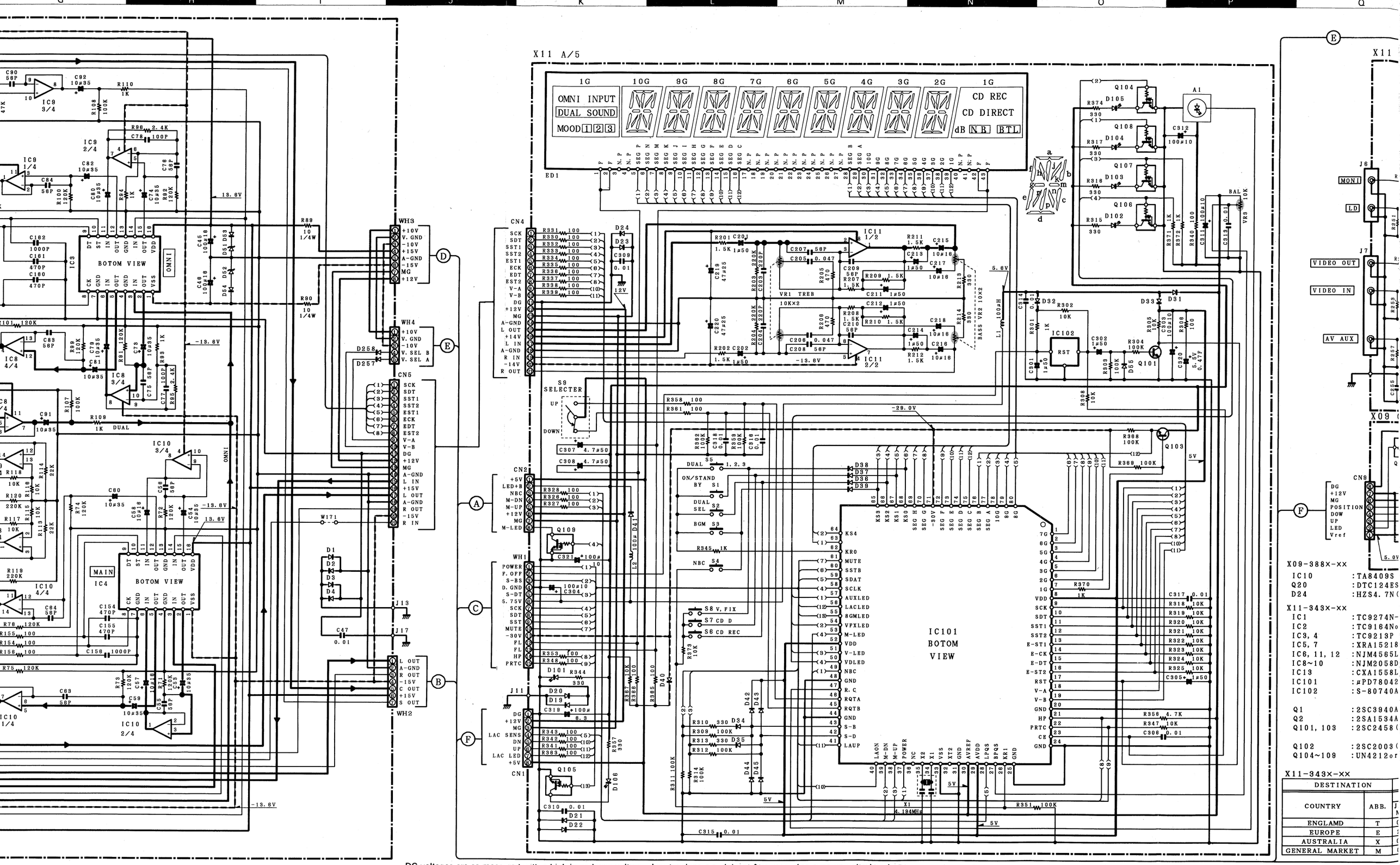
PHONO
TUNER
REC OUT
TAPE
PLAY IN
REC OUT
MD/DAT
PLAY IN
CD/LD
REC OUT
VIDEO
PLAY IN
AV AUX
MAIN OUT
MAIN IN
OMNI

IC1 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9 IC10 IC12

BOTOM VIEW

WH2 WH3 WH4 CN5

DC voltages are as measur
ter with no signal input. Val
tions between individual ins

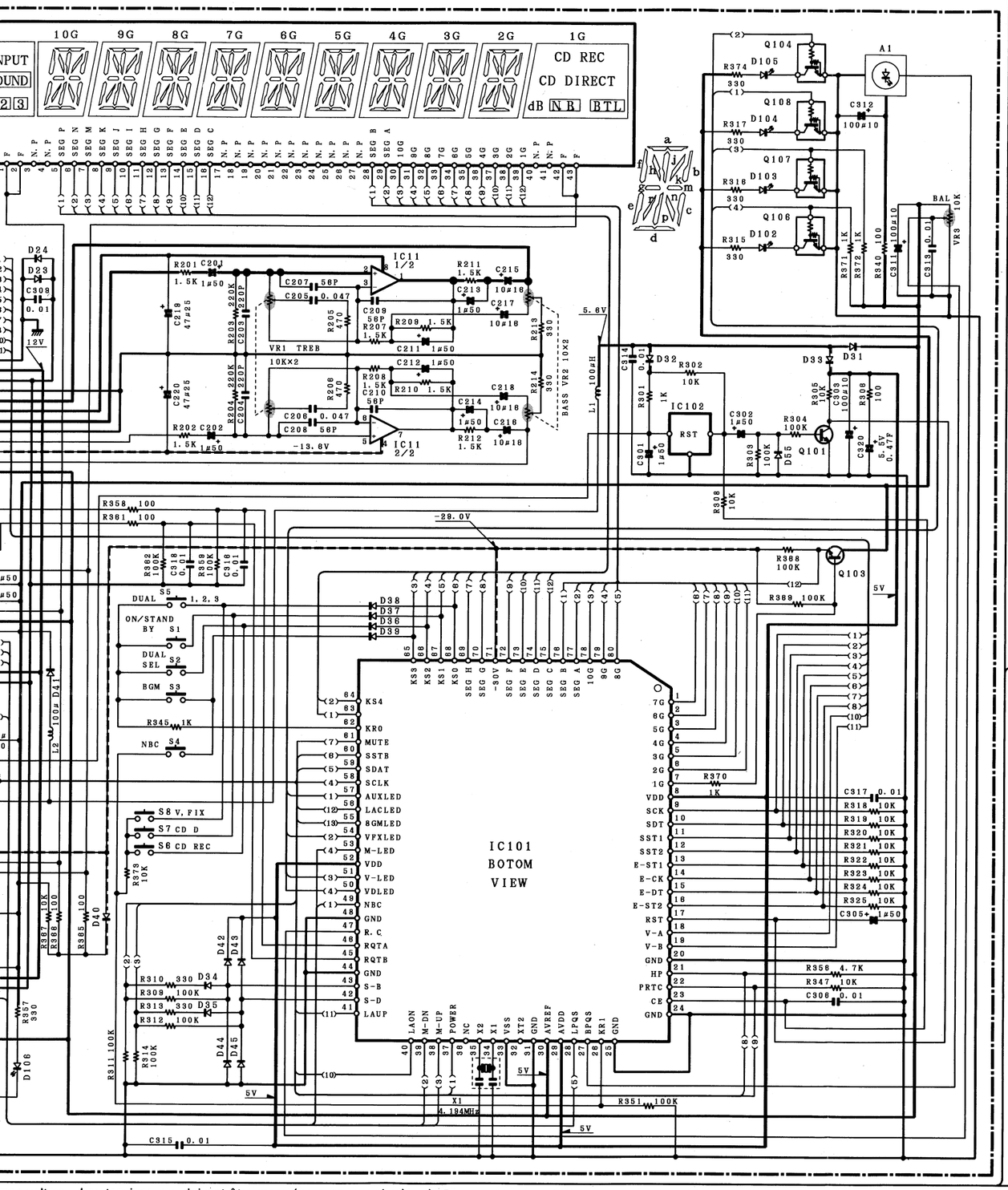


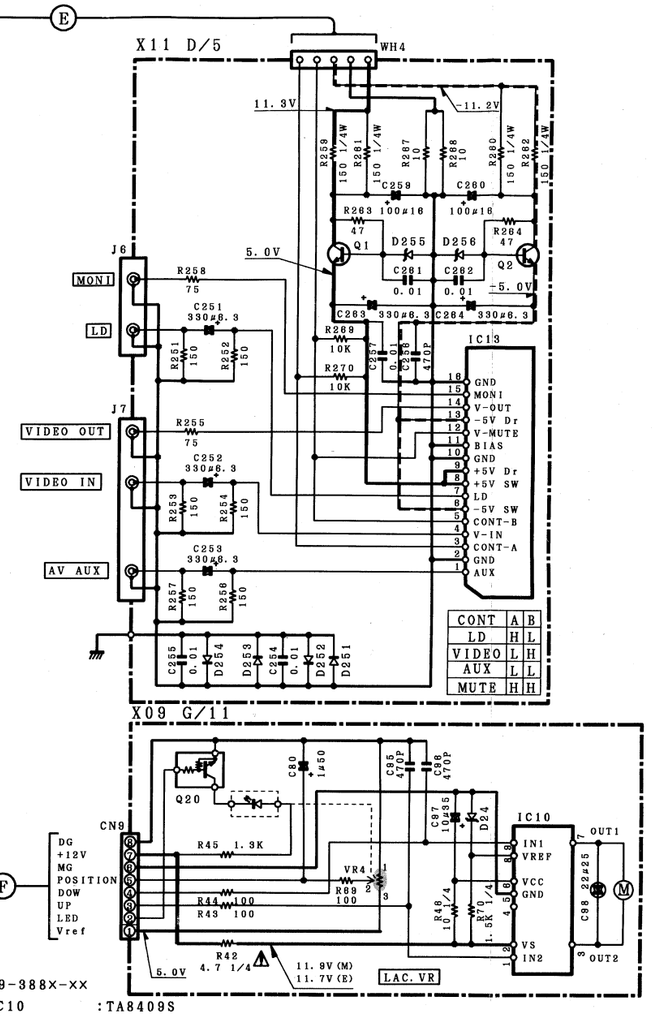
DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer parts list). ⚠ Indicates safety critical components. To reduce





X09-388X-xx

IC10	:TA8409S		
Q20	:DTC124ES		
D24	:HZS4.7N(B2) or RD4.7ES(B2)		

X11-343X-xx

IC1	:TC9274N-003	D1~15, 17, 19~25	:HSS104 or 1SS133
IC2	:TC9164N or MJU7313L		
IC3, 4	:TC9213P	41~45, 53~55	
IC5, 7	:XRA15218-DX or NJM4565D-D	251~254, 257, 258	
IC6, 11, 12	:NJM4565L-D	D26	:KBP02ML-6127
IC8~10	:NJM2058D	D40, 255, 256	:HZS5.6N(B2) or RD5.6ES(B2)
IC13	:CXA1558L		
IC101	:μPD78042GF-039	D51, 52	:HZS13N(B2) or RD13ES(B2)
IC102	:S-80740AL or MN1381-R(TA)		
Q1	:2SC3940A(R, S)	ED1	:10-BT-120GK
Q2	:2SA1534A(R, S)		
Q101, 103	:2SC2458(Y, GR) or 2SC3311A(Q, R) [JAPAN MADE]		
Q102	:2SC2003(L, K)		
Q104~109	:UN4212 or DTC124ES		

X11-343X-xx

DESTINATION		UNIT No.			
		A-97		A-87	
COUNTRY	ABB.	JAPAN MADE	SINGPORE MADE	JAPAN MADE	SINGPORE MADE
ENGLAMD	T	0-51	0-52		
EUROPE	E	2-71	2-72		
AUSTRALIA	X	0-71	0-72	0-71	0-72
GENERAL MARKET	M	0-21	0-22	0-21	0-22

SIGNAL LINE
GND LINE

TO X09 CN8 (A) 2/2
TO X09 CN4 (B) 2/2
TO X09 CN1 (C) 2/2
TO X09 CN2 (D) 2/2

2SA1123 2SC2631
2SA1534A 2SC2878
2SC1845 2SC3940A
2SC2003

DTC124ES 2SC1740S
2SA1048 2SC2458
2SA933S

2SC4137

2SB1556
2SD2385

2SB1370

UN4212 2SC3311A
2SA1309A

NJM4565D-D

NJM2058D

BA12003 TC9213P
LC7824

TA8409S

NJM4580L-D

NJU7313L

TC9164N

TA7812S
TA7815S
XRA17812T
XRA17815T

TA79015S

NJM4556L
NJM4565L-D

S-80740AL

ance voltme-due to varia-

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

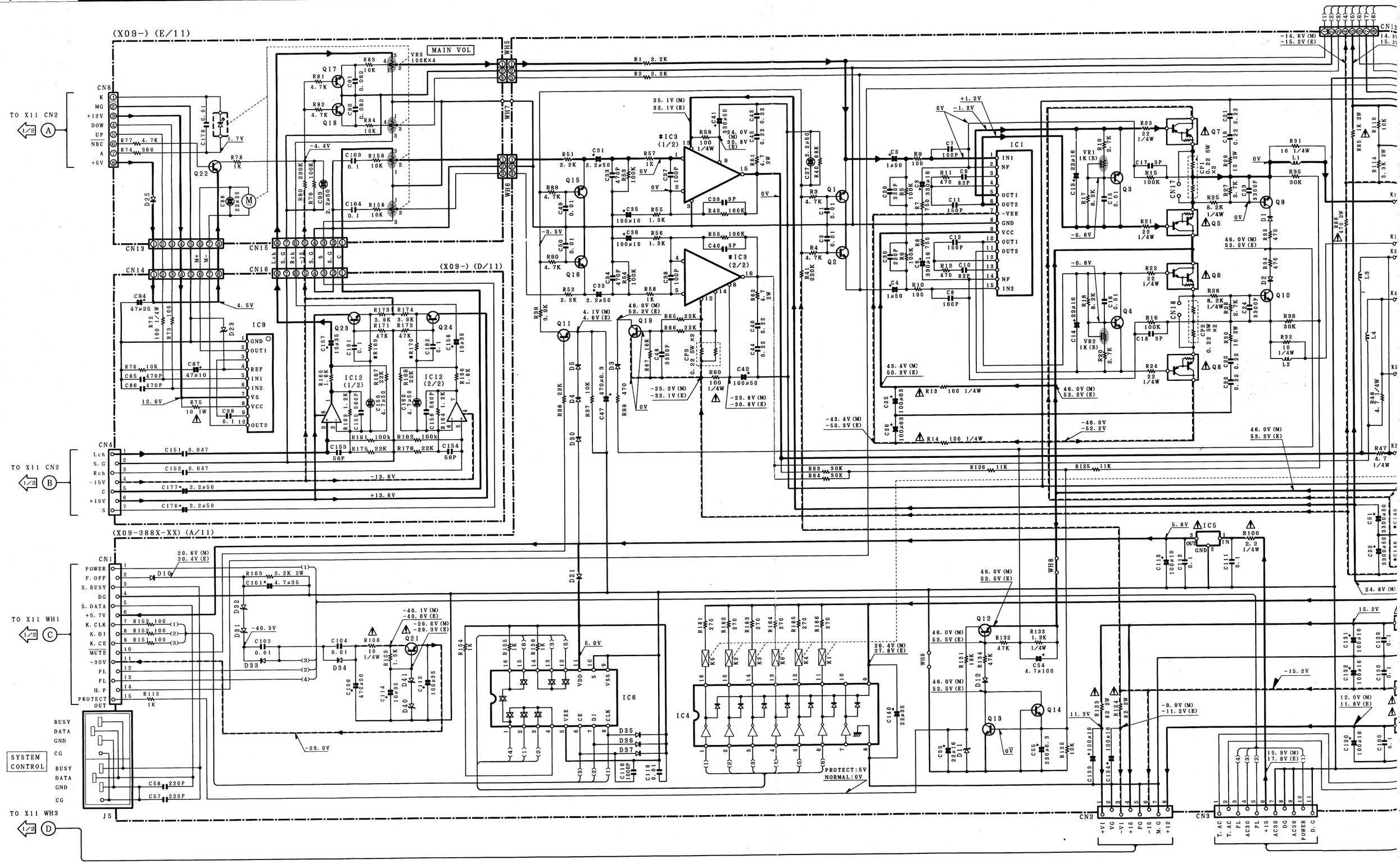
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y08-4860-21

A-87/97

KENWOOD


(X09-) (E/11)
(X09-) (D/11)
(X09-388X-XX) (A/11)
MAIN VOL
VR3 100K×4
CN8
K
MG
+12V
DOW
UP
NBC
A
+5V
TO X11 CN2
1/2 A
CN13
CN14
CN15
CN16
M+
M-
Lch
S.G
Rch
-15
S
C
IC9
GND
OUT1
REF
IN1
IN2
VS
VCC
OUT2
4.5V
12.0V
IC12 (1/2)
IC12 (2/2)
Q17
Q18
Q22
Q23
Q24
CN4
TO X11 CN2
1/2 B
-13.6V
+13.6V
WH5
WH7
WH6
WH8
IC3 (1/2)
IC3 (2/2)
Q15
Q16
Q11
Q19
25.1V (M)
32.1V (E)
34.0V (M)
30.8V (E)
4.1V (M)
4.6V (E)
46.0V (M)
52.2V (E)
-25.2V (M)
-32.1V (E)
-23.8V (M)
-30.8V (E)
IC1
IN1
NF
OUT1
OUT2
-VEE
GND
VCC
OUT1
OUT2
NF
IN2
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
Q9
Q10
+1.2V
0V
-1.2V
43.4V (M)
50.3V (E)
-43.4V (M)
-50.3V (E)
-46.0V
-52.2V
CN12
-14.6V (M)
-15.2V (E)
24.8V (M)
CN1
POWER
F.OFF
S.BUSY
DG
S.DATA
+5.7V
K.CLK
K.DI
K.CE
MUTE
-30V
FL
FL
H.P
PROTECT OUT
TO X11 WH1
1/2 C
20.6V (M)
20.4V (E)
D10
-40.3V
-40.1V (M)
-40.0V (E)
-29.6V (M)
-29.3V (E)
-29.0V
IC6
VDD
S
VSS
VEE
CE
DI
CLK
5.0V
IC4
PROTECT:5V
NORMAL:0V
26.4V (M)
27.8V (E)
Q12
Q13
Q14
11.3V
-9.9V (M)
-11.2V (E)
IC5
5.8V
15.2V
-15.2V
12.0V (M)
11.8V (E)
15.9V (M)
17.8V (E)
CN2
+V1
VG
-V1
+15
PG
-15
M.G
+12
CN3
T.AC
T.AC
FL
AC30
FL
+15
AC30
DG
AC30
POWER
D.G
SYSTEM CONTROL
BUSY
DATA
GND
CG
J5
TO X11 WH3
1/2 D

X09-
IC1 :STK350-030
IC2 :NJM4565L
IC3 :STK401-071 or STK401-271
IC4 :BA12003
IC5 :TA78057S
IC6 :LC7824
IC7 :XRA17815Tor TA7815S
IC8 :TA79015S or μPC7915AHF
IC9 :BA6209N
IC11 :XRA17812Tor TA7812S
IC12 :NJM4580L-D

Q1, 2, 15~18 :2SC2878 (B)
Q3, 4 :2SC4137
Q5, 6 :2SD2385
Q7, 8 :2SB1556
Q9, 10, 19 :2SC2631 (R, S)
Q11, 22 :2SA1048 (Y, GR) or 2SA1309A (Q, R)
Q12 :2SA1123 (R, S)
Q13, 14, 23, 24 :2SC1845 (E, F)
Q21 :2SB1370

D1~3, 10, 12 :HSS104A or 1SS131
D4, 5, 13~21, 25, 25~30, 35~37 :HSS104 or 1SS133
D6~9 :HZS7.5S (B2) or RD7.5JS (B2)
D11, 23 :HZS4.7N (B2) or RD4.7ES (B2)
D24 :HZS3.9N (B2) or RD3.9ES (B2)
D31, 32 :HZS5.1N (B2) or RD5.1ES (B2)
D33, 34 :S56888
D40, 41 :HZS15N (B2) or RD15ES (B2)
D47 :KBP02ML-6127
D48 :D3SBA20F03 or RBV-402LFA
D49 :D5SBA20F03 or RBV-602LFA

X09-388X-XX

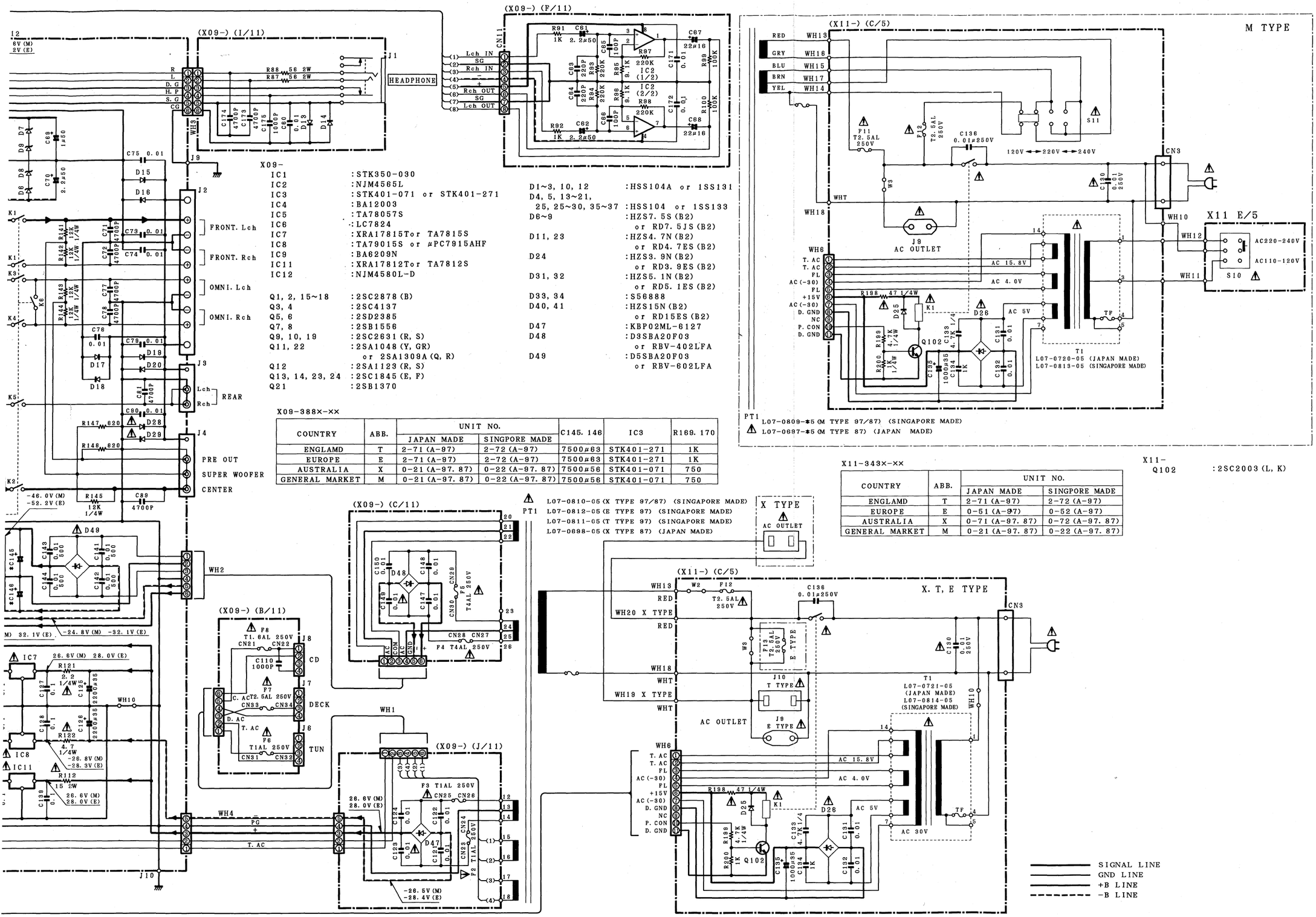
COUNTRY	ABB.	UNIT NO. JAPAN MADE	UNIT NO. SINGPORE MADE	C145. 146	IC3	R169. 170
ENGLAMD	T	2-71 (A-97)	2-72 (A-97)	7500μ63	STK401-271	1K
EUROPE	E	2-71 (A-97)	2-72 (A-97)	7500μ63	STK401-271	1K
AUSTRALIA	X	0-21 (A-97. 87)	0-22 (A-97. 87)	7500μ56	STK401-071	750
GENERAL MARKET	M	0-21 (A-97. 87)	0-22 (A-97. 87)	7500μ56	STK401-071	750

⚠ L07-0810-05 (X TYPE 97/87) (SINGAPORE MADE)
PT1 L07-0812-05 (E TYPE 97) (SINGAPORE MADE)
L07-0811-05 (T TYPE 97) (SINGAPORE MADE)
L07-0898-05 (X TYPE 87) (JAPAN MADE)

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichsp hochohmigen Spannung gemessen. Dabei schwanke terschieden zwischen einze U. geringfügig.



X09-

IC1	:STK350-030
IC2	:NJM4565L
IC3	:STK401-071 or STK401-271
IC4	:BA12003
IC5	:TA78057S
IC6	:LC7824
IC7	:XRA17815Tor TA7815S
IC8	:TA79015S or μPC7915AHF
IC9	:BA6209N
IC11	:XRA17812Tor TA7812S
IC12	:NJM4580L-D
Q1, 2, 15~18	:2SC2878 (B)
Q3, 4	:2SC4137
Q5, 6	:2SD2385
Q7, 8	:2SB1556
Q9, 10, 19	:2SC2631 (R, S)
Q11, 22	:2SA1048 (Y, GR) or 2SA1309A (Q, R)
Q12	:2SA1123 (R, S)
Q13, 14, 23, 24	:2SC1845 (E, F)
Q21	:2SB1370
D1~3, 10, 12	:HSS104A or 1SS131
D4, 5, 13~21, 25, 25~30, 35~37	:HSS104 or 1SS133
D6~9	:HZS7.5S (B2) or RD7.5JS (B2)
D11, 23	:HZS4.7N (B2) or RD4.7ES (B2)
D24	:HZS3.9N (B2) or RD3.9ES (B2)
D31, 32	:HZS5.1N (B2) or RD5.1ES (B2)
D33, 34	:S56888
D40, 41	:HZS15N (B2) or RD15ES (B2)
D47	:KBP02ML-6127
D48	:D3SBA20F03 or RBV-402LFA
D49	:D5SBA20F03 or RBV-602LFA

X09-388×-××

COUNTRY	ABB.	UNIT NO.		C145. 146	IC3	R169. 170
		JAPAN MADE	SINGPORE MADE			
ENGLAMD	T	2-71 (A-97)	2-72 (A-97)	7500μ63	STK401-271	1K
EUROPE	E	2-71 (A-97)	2-72 (A-97)	7500μ63	STK401-271	1K
AUSTRALIA	X	0-21 (A-97. 87)	0-22 (A-97. 87)	7500μ56	STK401-071	750
GENERAL MARKET	M	0-21 (A-97. 87)	0-22 (A-97. 87)	7500μ56	STK401-071	750

PT1
⚠ L07-0809-⁂5 (M TYPE 97/87) (SINGAPORE MADE)
⚠ L07-0697-⁂5 (M TYPE 87) (JAPAN MADE)

PT1
⚠ L07-0810-05 (X TYPE 97/87) (SINGAPORE MADE)
L07-0812-05 (E TYPE 97) (SINGAPORE MADE)
L07-0811-05 (T TYPE 97) (SINGAPORE MADE)
L07-0898-05 (X TYPE 87) (JAPAN MADE)

X11-343×-××

COUNTRY	ABB.	UNIT NO.	
		JAPAN MADE	SINGPORE MADE
ENGLAMD	T	2-71 (A-97)	2-72 (A-97)
EUROPE	E	0-51 (A-97)	0-52 (A-97)
AUSTRALIA	X	0-71 (A-97. 87)	0-72 (A-97. 87)
GENERAL MARKET	M	0-21 (A-97. 87)	0-22 (A-97. 87)

X11-
Q102 :2SC2003 (L, K)

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

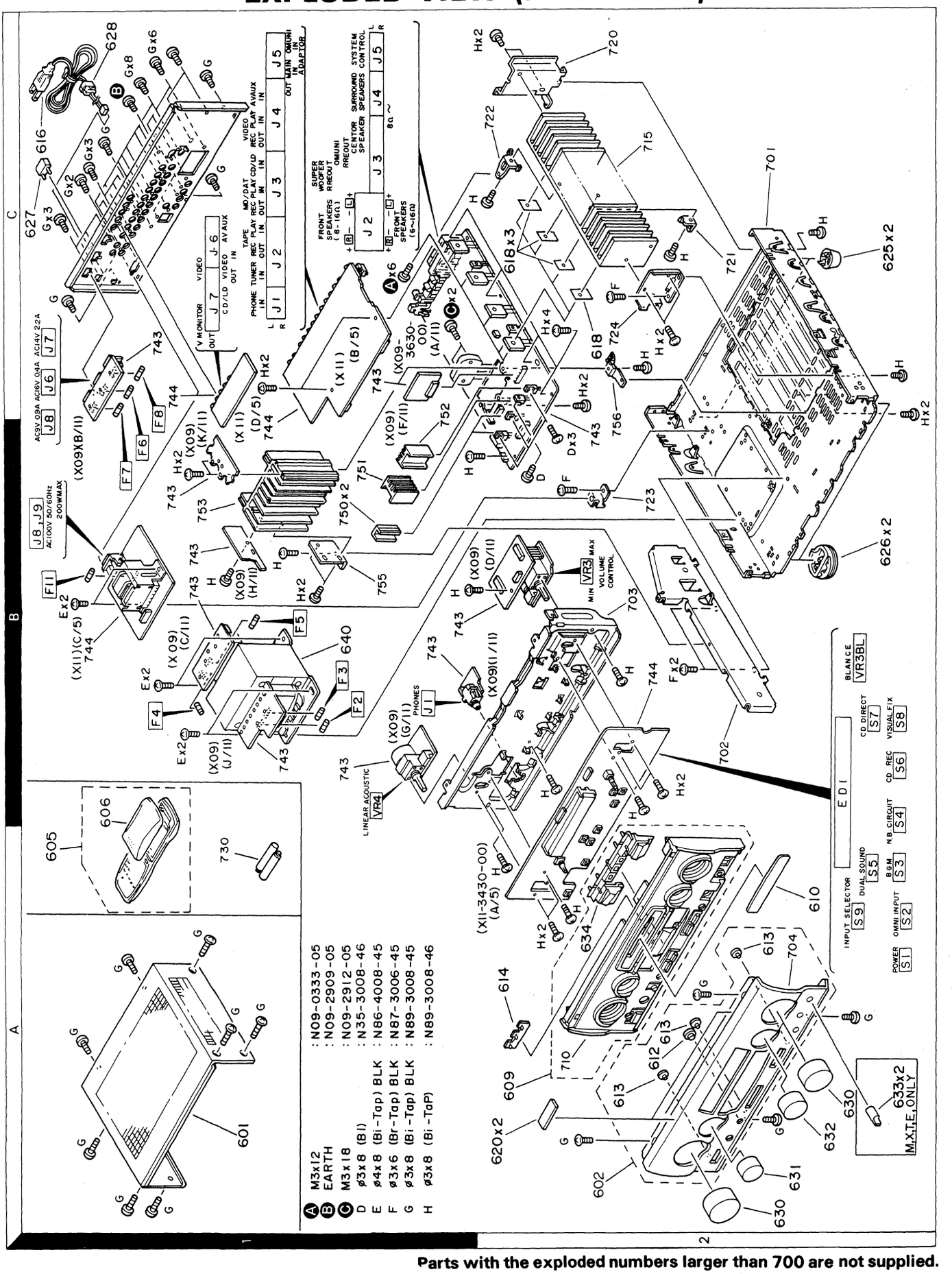
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y08-4860-21

A-87/97
KENWOOD

EXPLODED VIEW (MAIN UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

UNIT LIST(A-87)

DESTINATION		AUDIO UNIT	CONTROL UNIT
JAPAN MADE	M	X09-3880-21	X11-3430-21
	X	X09-3880-21	X11-3430-71
SINGAPORE MADE	M	X09-3880-22	X11-3430-22
	X	X09-3880-22	X11-3430-72

A-97

DESTINATION		AUDIO UNIT	CONTROL UNIT
JAPAN MADE	J	X09-3880-00	X11-3430-00
	M	X09-3880-21	X11-3430-21
	X	X09-3880-21	X11-3430-71
	T	X09-3882-71	X11-3430-51
	E	X09-3882-71	X11-3432-71
SINGAPORE MADE	M	X09-3880-22	X11-3430-22
	X	X09-3882-22	X11-3430-72
	T	X09-3882-72	X11-3430-52
	E	X09-3882-72	X11-3432-72

※ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht gellefert.

NO.1

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
A-87 (JAPAN MADE)						
601	1A		A01-1810-01	METALLIC CABINET		
602	2A	*	A60-0502-02	PANEL ASSY		
605	1B	*	X94-1050-11	REMOTE CONTROL ASSY UNIT		
606	1B	*	F07-0721-23	BATTERY COVER		
609	2A	*	B01-0518-02	PANEL ESCUTCHEON ASSY		
610	2A	*	B10-1963-04	FRONT GLASS		
612	2A	*	B11-0265-04	COLOR FILTER		
613	2A		B19-1520-04	LIGHTING BOARD		
614	2A	*	B19-1525-04	LIGHTING BOARD		
-			B46-0096-33	WARRANTY CARD	X	
-		*	B52-0533-00	CONNECTING DIAGRAM		
-		*	B60-1351-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-1352-00	INSTRUCTION MANUAL (SPANISH)	M	
-		*	B60-1353-00	INSTRUCTION MANUAL (CHINESE)	M	
⚠ 616	1C		E30-2592-15	AC POWER CORD	M	
⚠ 616	1C		E30-2717-05	AC POWER CORD	X	
617	2B,1C	*	E35-0689-05	FLAT CABLE X11(CN4)-(CN5)		
⚠ J8 ,9	1B		E03-0141-05	AC OUTLET	X	
618	2C		F20-1284-05	INSULATING BOARD		
620	2A		G11-0155-14	SOFT TAPE (40X9X2)		
		*	H50-0804-04	ITEM CARTON CASE		
-		*	H10-5504-12	POLYSTYRENE FOAMED FIXTURE L		
-		*	H10-5505-02	POLYSTYRENE FOAMED FIXTURE R		
-		*	H13-0110-04	CARTON BOARD	X	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0304-04	PROTECTION BAG		
625	2C		J02-0366-15	FOOT REAR		
626	2B		J02-1040-05	FOOT FRONT		
627	1C		J12-0091-05	PIN		
⚠ 628	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
630	2A		K29-4403-04	KNOB VOLUME,LINIAR ACOUSTIC		
631	2A		K29-4404-04	KNOB INPUT SELECTOR		
632	2A		K29-4405-04	KNOB BALANCE		
633	2A		K29-5672-04	KNOB BASS,TREBLE		
634	2A	*	K29-5706-03	KNOB DUAL SOUND,CD DIRECT		
640	1B	*	L07-0697-05	POWER TRANSFORMER	M	
640	1B	*	L07-0698-05	POWER TRANSFORMER	X	
A	1C		N09-0333-05	TAPPING SCREW (3X12)		
B	1C		N09-2909-05	TAPTITE SCREW		
E	1B		N86-4008-45	BINDING HEAD TAPTITE SCREW		
F	2B,2C		N87-3006-46	BRAZIER HEAD TAPTITE SCREW		
G	1A,1C		N89-3008-45	BINDING HEAD TAPTITE SCREW		
H	2A,2C		N89-3008-46	BINDING HEAD TAPTITE SCREW		
A-87 (SINGAPORE MADE)						
601	1A		A01-1810-01	METALLIC CABINET		
602	2A	*	A60-0502-12	PANEL ASSY		
605	1A	*	X94-1050-11	REMOTE CONTROL ASSY UNIT		
606	1B	*	F07-0721-23	BATTERY COVER		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components.

※ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht gellefert.

NO.2

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
609	2A	*	B01-0518-02	PANEL ESCUTCHEON ASSY		
610	2A	*	B10-1963-04	FRONT GLASS		
612	2A	*	B11-0265-04	COLOR FILTER		
613	2A		B19-1520-04	LIGHTING BOARD		
614	2A	*	B19-1525-04	LIGHTING BOARD		
-			B46-0096-33	WARRANTY CARD	X	
-		*	B52-0533-00	CONNECTING DIAGRAM		
-		*	B60-1351-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-1352-00	INSTRUCTION MANUAL (SPANISH)	M	
-		*	B60-1353-00	INSTRUCTION MANUAL (CHINESE)	M	
⚠ 616	1C		E30-2592-15	AC POWER CORD	M	
⚠ 616	1C		E30-2717-05	AC POWER CORD	X	
617	2B,1C	*	E35-0689-05	FLAT CABLE X11(CN4)-(CN5)		
⚠ J8 ,9	1B		E03-0141-05	AC OUTLET	X	
618	2C		F20-1284-05	INSULATING BOARD		
620	2A		G11-0155-14	SOFT TAPE (40X9X2)		
		*	H50-0820-04	ITEM CARTON CASE	M	
		*	H50-0855-04	ITEM CARTON CASE	X	
-		*	H10-5601-12	POLYSTYRENE FOAMED FIXTURE L		
-		*	H10-5602-02	POLYSTYRENE FOAMED FIXTURE R		
-		*	H13-0111-14	CARTON BOARD	X	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0304-04	PROTECTION BAG		
625	2C		J02-0366-15	FOOT REAR		
626	2B		J02-1040-05	FOOT FRONT		
627	1C		J12-0091-05	PIN		
⚠ 628	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
630	2A		K29-4403-04	KNOB VOLUME,LINIAR ACOUSTIC		
631	2A		K29-4404-04	KNOB INPUT SELECTOR		
632	2A		K29-4405-04	KNOB BALANCE		
633	2A		K29-5672-04	KNOB BASS,TREBLE		
634	2A	*	K29-5706-03	KNOB DUAL SOUND,CD DIRECT		
640	1B	*	L07-0809-05	POWER TRANSFORMER	M	
640	1B	*	L07-0810-05	POWER TRANSFORMER	X	
A	1C		N09-0333-05	TAPPING SCREW (3X12)		
B	1C		N09-2909-05	TAPTITE SCREW		
E	1B		N86-4008-45	BINDING HEAD TAPTITE SCREW		
F	2B,2C		N87-3006-45	BRAZIER HEAD TAPTITE SCREW		
G	1A,1C		N89-3008-45	BINDING HEAD TAPTITE SCREW		
H	2A,2C		N89-3008-46	BINDING HEAD TAPTITE SCREW		
A-97 (JAPAN MADE)						
601	1A		A01-1810-01	METALLIC CABINET		
602	2A	*	A60-0501-02	PANEL ASSY		
605	1A	*	X94-1050-11	REMOTE CONTROL ASSY UNIT	TE	
605	1A	*	X94-1050-21	REMOTE CONTROL ASSY UNIT	MX	
606	1B	*	F07-0721-23	BATTERY COVER		
609	2A	*	B01-0518-02	PANEL ESCUTCHEON ASSY		
610	2A	*	B10-1963-04	FRONT GLASS		
612	2A	*	B11-0265-04	COLOR FILTER		
613	2A		B19-1520-04	LIGHTING BOARD		
614	2A	*	B19-1525-04	LIGHTING BOARD		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components.

※ New Parts
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Teile ohne **Parts No.** werden nicht gellefert.

NO.3

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
-			B46-0096-33	WARRANTY CARD	X	
-		*	B46-0310-03	WARRANTY CARD	ET	
-		*	B52-0533-00	CONNECTING DIAGRAM	MX	
-		*	B52-0534-00	CONNECTING DIAGRAM	TE	
-		*	B60-1342-00	INSTRUCTION MANUAL (ENGLIS)	TE	
-		*	B60-1343-00	INSTRUCTION MANUAL (FRENCH)	E	
-		*	B60-1344-00	INSTRUCTION MANUAL (GERMAN)	E	
-		*	B60-1345-00	INSTRUCTION MANUAL (DUTCH)	E	
-		*	B60-1346-00	INSTRUCTION MANUAL (ITALIAN)	E	
-		*	B60-1347-00	INSTRUCTION MANUAL (SPANISH)	E	
-		*	B60-1348-00	INSTRUCTION MANUAL (ENGLISH)	MX	
-		*	B60-1349-00	INSTRUCTION MANUAL (SPANISH)	M	
-		*	B60-1350-00	INSTRUCTION MANUAL (CHINESE)	M	
⚠ 616	1C		E30-2592-15	AC POWER CORD	ME	
⚠ 616	1C		E30-2717-05	AC POWER CORD	X	
⚠ 616	1C		E30-2721-05	AC POWER CORD	T	
617	2B,1C	*	E35-0689-05	FLAT CABLE X11(CN4)-(CN5)		
⚠ J8 ,9	1B		E03-0141-05	AC OUTLET	X	
618	2C		F20-1284-05	INSULATING BOARD		
620			G11-0155-14	SOFT TAPE (40X9X2)		
		*	H50-0655-04	ITEM CARTON CASE	MXE	
		*	H50-0656-04	ITEM CARTON CASE	T	
-		*	H10-5504-12	POLYSTYRENE FOAMED FIXTURE L	MXE	
-		*	H10-5505-02	POLYSTYRENE FOAMED FIXTURE R	MXE	
-		*	H10-5506-12	POLYSTYRENE FOAMED FIXTURE L	T	
-		*	H10-5507-02	POLYSTYRENE FOAMED FIXTURE R	T	
-		*	H13-0110-04	CARTON BOARD	X	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	MXE	
-			H25-0304-04	PROTECTION BAG	MXE	
-			H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
-			H25-0656-04	PROTECTION BAG (0304 PRINTED)	T	
625	2C		J02-0366-15	FOOT REAR		
626	2B		J02-1040-05	FOOT FRONT		
627	1C		J12-0091-05	PIN		
⚠ 628	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
630	2A		K29-4403-04	KNOB VOLUME,LINIAR ACOUSTIC		
631	2A		K29-4404-04	KNOB INPUT SELECTOR		
632	2A		K29-4405-04	KNOB BALANCE		
633	2A		K29-5672-04	KNOB BASS,TREBLE		
634	2A	*	K29-5706-03	KNOB DUAL SOUND,CD DIRECT		
640	1B	*	L07-0697-05	POWER TRANSFORMER	M	
640	1B	*	L07-0698-05	POWER TRANSFORMER	X	
640	1B	*	L07-0699-05	POWER TRANSFORMER	T	
640	1B	*	L07-0700-05	POWER TRANSFORMER	E	
A	1C		N09-0333-05	TAPPING SCREW (3X12)		
B	1C		N09-2909-05	TAPTITE SCREW		
E	1B		N86-4008-45	BINDING HEAD TAPTITE SCREW		
F	2B,2C		N87-3006-46	BRAZIER HEAD TAPTITE SCREW		
G	1A,1C		N89-3008-45	BINDING HEAD TAPTITE SCREW		
H	2A,2C		N89-3008-46	BINDING HEAD TAPTITE SCREW		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components.

※ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht gellefert.

NO.4

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
A-97 (SINGAPORE MADE)						
601	1A		A01-1810-01	METALLIC CABINET		
602	2A	*	A60-0501-02	PANEL ASSY		
605	1A	*	X94-1050-11	REMOTE CONTROL ASSY UNIT	TE	
605	1A	*	X94-1050-21	REMOTE CONTROL ASSY UNIT	MX	
606	1B	*	F07-0721-23	COVER		
609	2A	*	B01-0518-02	PANEL ESCUTCHEON ASSY		
610	2A	*	B10-1963-04	FRONT GLASS		
612	2A	*	B11-0265-04	COLOR FILTER		
613	2A		B19-1520-04	LIGHTING BOARD		
614	2A	*	B19-1525-04	LIGHTING BOARD		
-			B46-0096-33	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	ET	
-		*	B52-0533-00	CONNECTING DIAGRAM	MX	
-		*	B52-0534-00	CONNECTING DIAGRAM	TE	
-		*	B60-1342-00	INSTRUCTION MANUAL (ENGLISH)	TE	
-		*	B60-1343-00	INSTRUCTION MANUAL (FRENCH)	E	
-		*	B60-1344-00	INSTRUCTION MANUAL (GERMAN)	E	
-		*	B60-1345-00	INSTRUCTION MANUAL (DUTCH)	E	
-		*	B60-1346-00	INSTRUCTION MANUAL (ITALIAN)	E	
-		*	B60-1347-00	INSTRUCTION MANUAL (SPANISH)	E	
-		*	B60-1348-00	INSTRUCTION MANUAL (ENGLISH)	MX	
-		*	B60-1349-00	INSTRUCTION MANUAL (SPANISH)	M	
-		*	B60-1350-00	INSTRUCTION MANUAL (CHINESE)	M	
⚠ 616	1C		E30-2592-15	AC POWER CORD	ME	
⚠ 616	1C		E30-2717-05	AC POWER CORD	X	
⚠ 616	1C		E30-2721-05	AC POWER CORD	T	
617	2B,1C	*	E35-0689-05	FLAT CABLE X11(CN4)-(CN5)		
⚠ J8 ,9	1B		E03-0141-05	AC OUTLET	X	
618	2C		F20-1284-05	INSULATING BOARD		
620	2A		G11-0155-14	SOFT TAPE (40X9X2)		
		*	H50-0816-04	ITEM CARTON CASE	M	
		*	H50-0817-04	ITEM CARTON CASE	X	
		*	H50-0818-04	ITEM CARTON CASE	T	
		*	H50-0819-04	ITEM CARTON CASE	E	
-		*	H10-5601-12	POLYSTYRENE FOAMED FIXTURE L	MXE	
-		*	H10-5602-02	POLYSTYRENE FOAMED FIXTURE R	MXE	
-		*	H10-5623-12	POLYSTYRENE FOAMED FIXTURE L	T	
-		*	H10-5624-02	POLYSTYRENE FOAMED FIXTURE R	T	
-		*	H13-0111-14	CARTON BOARD	X	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	MXE	
-			H25-0304-04	PROTECTION BAG	MXE	
-			H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
-			H25-0656-04	PROTECTION BAG (0304 PRINTED)	T	
625	2C		J02-0366-15	FOOT REAR		
626	2B		J02-1040-05	FOOT FRONT		
627	1C		J12-0091-05	PIN		
⚠ 628	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
630	2A		K29-4403-04	KNOB VOLUME,LINIAR ACOUSTIC		
631	2A		K29-4404-04	KNOB INPUT SELECTOR		
632	2A		K29-4405-04	KNOB BALANCE		

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NO.5

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
633	2A		K29-5672-04	KNOB BASS,TREBLE		
634	2A	*	K29-5706-03	KNOB DUAL SOUND,CD DIRECT		
640	1B	*	L07-0809-05	POWER TRANSFORMER	M	
640	1B	*	L07-0810-05	POWER TRANSFORMER	X	
640	1B	*	L07-0811-05	POWER TRANSFORMER	T	
640	1B	*	L07-0812-05	POWER TRANSFORMER	E	
A	1C		N09-0333-05	TAPPING SCREW (3X12)		
B	1C		N09-2909-05	TAPTITE SCREW		
E	1B		N86-4008-45	BINDING HEAD TAPTITE SCREW		
F	2B,2C		N87-3006-45	BRAZIER HEAD TAPTITE SCREW		
G	1A,1C		N89-3008-45	BINDING HEAD TAPTITE SCREW		
H	2A,2C		N89-3008-46	BINDING HEAD TAPTITE SCREW		
AUDIO UNIT (X09-388X-XX)						
C1 ,2			CK45FF1H103Z	CERAMIC 0.010UF Z		
C3 ,4			CE04KW1H010M	ELECTRO 1.0UF 50WV		J
C3 ,4			CE04LW1H010M	ELECTRO 1.0UF 50WV		S
C5 ,6		*	C90-3522-05	ELECTRO 220UF 6.3WV		
C7 ,8			CC45FSL1H101J	CERAMIC 100PF J		
C9 ,10			CC45FSL1H820J	CERAMIC 82PF J		
C11 ,12			CC45FSL1H151J	CERAMIC 150PF J		
C13 ,14			CE04KW1C220M	ELECTRO 22UF 16WV		J
C13 ,14			CE04LW1C220M	ELECTRO 22UF 16WV		S
C15 ,16			CK45FF1H103Z	CERAMIC 0.010UF Z		
C17 ,18			CC45FSL1H030C	CERAMIC 3.0PF C		
C19 -22			CF92FV1H224J	MF 0.22UF J		J
C19 -22			CF92FV1H224J	MF 0.22UF J		S
C23 ,24			CF92FV1H332J	MF 3300PF J		
C25 ,26			CE04DW1J101M	ELECTRO 100UF 63WV		
C27			CE04HW1H2R2M	NP-ELEC 2.2UF 50WV		
C29 ,30			CF92FV1H221K	MF 220PF K		
C31 ,32			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		J
C31 ,32			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		S
C33 ,34			CK45FB1H471K	CERAMIC 470PF K		
C35 ,36			CE04KW1A101M	ELECTRO 100UF 10WV		J
C35 ,36			CE04LW1A101M	ELECTRO 100UF 10WV		S
C37 ,38			CC45FSL1H101J	CERAMIC 100PF J		
C39 ,40			CC45FSL1H030C	CERAMIC 3.0PF C		
C41			CE04DW1H331M	ELECTRO 330UF 50WV		
C42			CE04KW1H101M	ELECTRO 100UF 50WV		J
C42			CE04LW1H101M	ELECTRO 100UF 50WV		S
C43 -46			CF92FV1H224J	MF 0.22UF J		
C47			CE04KW0J471M	ELECTRO 470UF 6.3WV		J
C47			CE04LW0J471M	ELECTRO 470UF 6.3WV		S
C48			CF92FV1H332J	MF 3300PF J		
C49 ,50			CK45FF1H103Z	CERAMIC 0.010UF Z		
C51 ,52		*	C90-3512-05	ELECTRO 3300UF 50WV	MX	9
C51 ,52		*	C90-3512-05	ELECTRO 3300UF 50WV		8
C51 ,52		*	C90-3513-05	ELECTRO 3300UF 50WV	TE	9
C53			CE04KW1C220M	ELECTRO 22UF 16WV		J
C53			CE04LW1C220M	ELECTRO 22UF 16WV		S
C54			CE04KW2A4R7M	ELECTRO 4.7UF 100WV		J
C54			CE04LW2A4R7M	ELECTRO 4.7UF 100WV		S
C55			CE04KW0J221M	ELECTRO 220UF 6.3WV		J

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NO.6

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C55			CE04LW0J221M	ELECTRO 220UF 6.3WV		S
C57 ,58			CC45FSL1H221J	CERAMIC 220PF J		
C60			CK45FF1H103Z	CERAMIC 0.010UF Z		
C61 ,62			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		J
C61 ,62			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		S
C63 ,64			CC45FSL1H221J	CERAMIC 220PF J		
C65 ,66			CC45FSL1H101J	CERAMIC 100PF J		
C67 ,68			CE04KW1C220M	ELECTRO 22UF 16WV		J
C67 ,68			CE04LW1C220M	ELECTRO 22UF 16WV		S
C69			CE04KW1H010M	ELECTRO 1.0UF 50WV		J
C69			CE04LW1H010M	ELECTRO 1.0UF 50WV		S
C70			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		J
C70			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		S
C71 ,72			CK45FF1H472Z	CERAMIC 4700PF Z		
C73 -76			CK45FF1H103Z	CERAMIC 0.010UF Z		
C77 ,78			CK45FF1H472Z	CERAMIC 4700PF Z		
C79			CK45FF1H103Z	CERAMIC 0.010UF Z		
C80			CF92FV1H105J	MF 1.0UF J		
C81			CK45FF1H472Z	CERAMIC 4700PF Z		
C85 ,86			CK45FB1H471K	CERAMIC 470PF K		
C87			CE04KW1A470M	ELECTRO 47UF 10WV		J
C87			CE04LW1A470M	ELECTRO 47UF 10WV		S
C88			CE04HW1E220M	NP-ELEC 22UF 25WV		
C89			CK45FF1H472Z	CERAMIC 4700PF Z		
C90			CK45FF1H103Z	CERAMIC 0.010UF Z		
C91 ,92			CF92FV1H823J	MF 0.082UF J		
C93			CE04HW1H2R2M	NP-ELEC 2.2UF 50WV		
C94			CE04KW1E470M	ELECTRO 47UF 25WV		J
C94			CE04LW1E470M	ELECTRO 47UF 25WV		S
C95 ,96			CK45FB1H471K	CERAMIC 470PF K		
C97			CE04KW1V100M	ELECTRO 10UF 35WV		J
C97			CE04LW1V100M	ELECTRO 10UF 35WV		S
C98			CE04HW1E220M	NP-ELEC 22UF 25WV		
C99 ,100			CF92FV1H104J	MF 0.10UF J		
C101			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		J
C101			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		S
C102			CK45FF1H103Z	CERAMIC 0.010UF Z		
C104			CK45FF1H103Z	CERAMIC 0.010UF Z		
C109		*	CE04DW1H471M	ELECTRO 470UF 50WV		
C110			CK45FB1H102K	CERAMIC 1000PF K		
C111,112			CF92FV1H104J	MF 0.10UF J		
C113			CE04KW1A101M	ELECTRO 100UF 10WV		J
C113			CE04LW1A101M	ELECTRO 100UF 10WV		S
C114			CE04KW1V100M	ELECTRO 10UF 35WV		J
C114			CE04LW1V100M	ELECTRO 10UF 35WV		S
C115			CE04KW1V101M	ELECTRO 100UF 35WV		J
C115			CE04LW1V101M	ELECTRO 100UF 35WV		S
C116			CK45FB1H102K	CERAMIC 1000PF K		
C119			C91-0769-05	CERAMIC 0.01UF K		
C120			CE04KW1C101M	ELECTRO 100UF 16WV		J
C120			CE04LW1C101M	ELECTRO 100UF 16WV		S
C121-124			CK45FF1H103Z	CERAMIC 0.010UF Z		
C125,126			CE04KW1V222M	ELECTRO 2200UF 35WV		J
C125,126			CE04LW1V222M	ELECTRO 2200UF 35WV		S
C127-130			CF92FV1H104J	MF 0.10UF J		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C131-134			CE04KW1C101M	ELECTRO 100UF 16WV		J
C131-134			CE04LW1C101M	ELECTRO 100UF 16WV		S
C139			CF92FV1H104J	MF 0.10UF J		
C140			CE04KW1V220M	ELECTRO 22UF 35WV		J
C140			CE04LW1V220M	ELECTRO 22UF 35WV		S
C141-144			CK45FE2H103P	CERAMIC 0.010UF P		
C145,146		*	C90-3514-05	ELECTRO 7500UF 56WV	MX	9
C145,146		*	C90-3514-05	ELECTRO 7500UF 56WV		8
C145,146		*	C90-3515-05	ELECTRO 7500UF 63WV	TE	9
C147-150			CK45FF1H103Z	CERAMIC 0.010UF Z		
C151,152			CF92FV1H473J	MF 0.047UF J		
C153,154			CC45FSL1H560J	CERAMIC 56PF J		
C155,156			CK45FB1H561K	CERAMIC 560PF K		
C157,158			CE04KW1V100M	ELECTRO 10UF 35WV		J
C157,158			CE04LW1V100M	ELECTRO 10UF 35WV		S
C159,160			CE04HW1H4R7M	NP-ELEC 4.7UF 50WV		
C161-164			CF92FV1H104J	MF 0.10UF J		
C171,172			C91-0769-05	CERAMIC 0.01UF K		
C173,174			CK45FF1H472Z	CERAMIC 4700PF Z		
C175			CK45FB1H102K	CERAMIC 1000PF K		
C176,177			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		J
C176,177			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		S
C178			C91-0769-05	CERAMIC 0.01UF K		
J1			E11-0210-05	PHONE JACK HEAD PHONE		
J2			E70-0022-05	LOCK TERMINAL BOARD SPEAKERS		
J3		*	E63-0092-05	PHONO JACK SURROUND SP		
J4		*	E63-0090-05	PHONO JACK PREOUT,S WOOFER		
J5			E08-0312-05	RECTANGULAR RECEPTACLE SYNCHRO		
J6			E08-0414-05	RECTANGULAR RECEPTACLE TUNER		
J7			E08-0411-05	RECTANGULAR RECEPTACLE DECK		
J8			E08-0415-05	RECTANGULAR RECEPTACLE CD		
F2 ,3			F06-1022-05	FUSE (SEMKO) (250V T1AL)		
F4 ,5			F05-4025-05	FUSE (SEMKO) (250V T4A)		
F6			F06-1022-05	FUSE (SEMKO) (250V T1AL)		
F7			F05-2525-05	FUSE (SEMKO) (250V T2.5A)		
F8			F05-1623-05	FUSE (SEMKO) (250V T1.6A)		
CN21-34			J13-0075-05	FUSE CLIP		
L1 -4			L39-0085-05	PHASE COMPENSATION COIL		
C	1C		N09-2912-05	SEMS (TAPTITE SCREW)		
D	2B		N35-3008-46	BINDING HEAD MACHINE SCREW		
H	1B,2C		N89-3008-46	BINDING HEAD TAPTITE SCREW		
CP1 -3			R90-0826-05	MULTI-COMP 0.22X2 J 5W		
R5 ,6			RN14BK2C1003F	RN 100K F 1/6W		
R13 ,14			RD14NB2E101J	RD 100 J 1/4W		
R15 ,16			RN14BK2C1003F	RN 100K F 1/6W		
R21 -24			RD14NB2E220J	RD 22 J 1/4W		
R25 ,26			RD14NB2E822J	RD 8.2K J 1/4W		
R29 ,30			RS14KB3D100J	PL-PROOF RS 10 J 2W		
R31 ,32			RD14NB2E100J	RD 10 J 1/4W		
R42			RD14NB2E4R7J	RD 4.7 J 1/4W		
R46			RD14NB2E100J	RD 10 J 1/4W		
R47 ,48			RD14NB2E4R7J	RD 4.7 J 1/4W		

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R59 ,60			RD14NB2E101J	RD 100 J 1/4W		
R61 ,62		*	RS14NB3D4R7J	METAL OXIDE FILM RESISTOR		
R70			RD14NB2E152J	RD 1.5K J 1/4W		
R75		*	RS14NB3A100J	METAL OXIDE FILM RESISTOR		
R85		*	RS14NB3D102J	METAL OXIDE FILM RESISTOR		
R86		*	RS14NB3D471J	METAL OXIDE FILM RESISTOR		
R87 ,88		*	RS14NB3D560J	METAL OXIDE FILM RESISTOR		
R103		*	RS14NB3D222J	METAL OXIDE FILM RESISTOR		
R106			RD14NB2E2R2J	RD 2.2 J 1/4W		
R108			RD14NB2E100J	RD 10 J 1/4W		
R112		*	RS14NB3D150J	METAL OXIDE FILM RESISTOR		
R114		*	RS14NB3D332J	METAL OXIDE FILM RESISTOR		
R121			RD14NB2E2R2J	RD 2.2 J 1/4W		
R122			RD14NB2E4R7J	RD 4.7 J 1/4W		
R123,124		*	RS14NB3D820J	METAL OXIDE FILM RESISTOR		
VR1 ,2			R12-1616-05	TRIMMING POT.(1k) IDLE ADJ		
VR3			R29-5057-05	POTENTIOMETER(100kX4) VOLUME		
VR4		*	R29-3039-05	POTENTIOMETER(10k X1) LAC		
K1			S51-2078-05	MAGNETIC RELAY		
K2 -6			S76-0005-05	MAGNETIC RELAY		
D1 -3			HSS104A	DIODE		
D1 -3			1SS131	DIODE		
D4 ,5			HSS104	DIODE		
D4 ,5			1SS133	DIODE		
D6 -9			HZS7.5S(B2)	ZENER DIODE		
D6 -9			RD7.5JS(B2)	ZENER DIODE		
D10			HSS104A	DIODE		
D10			1SS131	DIODE		
D11			HZS4.7N(B2)	ZENER DIODE		
D11			RD4.7ES(B2)	ZENER DIODE		
D12			HSS104A	DIODE		
D12			1SS131	DIODE		
D13 -21			HSS104	DIODE		
D13 -21			1SS133	DIODE		
D23			HZS4.7N(B2)	ZENER DIODE		
D23			RD4.7ES(B2)	ZENER DIODE		
D24			HZS3.9N(B2)	ZENER DIODE		
D24			RD3.9ES(B2)	ZENER DIODE		
D25			HSS104	DIODE		
D25			1SS133	DIODE		
D28 -30			HSS104	DIODE		
D28 -30			1SS133	DIODE		
D31 ,32			HZS5.1N(B2)	ZENER DIODE		
D31 ,32			RD5.1ES(B2)	ZENER DIODE		
D33 ,34			S5688B	DIODE		
D35 -37			HSS104	DIODE		
D35 -37			1SS133	DIODE		
D40 ,41			HZS15N(B2)	ZENER DIODE		
D40 ,41			RD15ES(B2)	ZENER DIODE		
D47			KBP02ML-6127	DIODE		
D48			D3SBA20F03	DIODE		
D48			RBV-402LFA	DIODE		
D49			D5SBA20F03	DIODE		
D49			RBV-602LFA	DIODE		

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IC1		*	STK350-030	IC(AF DRIVER AMP)		
IC2			NJM4556L	IC(OP AMP)		
IC3		*	STK401-071	IC(AF POWER AMP/40WX2)	MX	9
IC3		*	STK401-071	IC(AF POWER AMP/40WX2)		8
IC3		*	STK401-271	IC(AF POWER AMP/40WX2)	TE	9
IC4			BA12003	IC(TRANSISTOR ARRAY)		
IC5			TA78057S	IC(VOLTAGE REGULATOR/+5.75V)		
IC6		*	LC7824	IC(ANALOG SW)		
IC7			TA7815S	IC(VOLTAGE REGULATOR/ +15V)		
IC7		*	XRA17815T	IC(VOLTAGE REGULATOR/ +15V)		
IC8			TA79015S	IC(VOLTAGE REGULATOR/ -15V)		
IC8			UPC7915AHF	IC(VOLTAGE REGURATOR/ -15V)		
IC9			BA6209N	IC(MOTOR DRIVER)		
IC10			TA8409S	IC(MOTOR CONTROL)		
IC11			TA7812S	IC(VOLTAGE REGULATOR/ +12V)		
IC11		*	XRA17812T	IC(VOLTAGE REGULATOR/ +12V)		
IC12			NJM4580L-D	IC(OP AMP X2)		
Q1 ,2			2SC2878(B)	TRANSISTOR		
Q3 ,4			2SC4137	TRANSISTOR		
Q5 ,6		*	2SD2385	TRANSISTOR		
Q7 ,8		*	2SB1556	TRANSISTOR		
Q9 ,10			2SC2631(R,S)	TRANSISTOR		
Q11			2SA1048(Y,GR)	TRANSISTOR		J
Q11			2SA1175(F,E)	TRANSISTOR		S
Q11			2SA1309A(Q,R)	TRANSISTOR		J
Q11			2SA933S(Q,R)	TRANSISTOR		S
Q12			2SA1123(R,S)	TRANSISTOR		
Q13 ,14			2SC1845(F,E)	TRANSISTOR		
Q15 -18			2SC2878(B)	TRANSISTOR		
Q19			2SC2631(R,S)	TRANSISTOR		
Q20			DTC124ES	DIGITAL TRANSISTOR		
Q21			2SB1370	TRANSISTOR		
Q22			2SA1048(Y,GR)	TRANSISTOR		J
Q22			2SA1175(F,E)	TRANSISTOR		S
Q22			2SA1309A(Q,R)	TRANSISTOR		J
Q22			2SA933S(Q,R)	TRANSISTOR		S
Q23 ,24			2SC1845(F,E)	TRANSISTOR		
CONTROL UNIT (X11-343X-XX)						
D101-106			B30-1291-05	LED(LN21CPSLX(V)-(TA4))		
C1 -4			CC45FSL1H221J	CERAMIC 220PF J		
C5 ,6			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		J
C5 ,6			CE04LW1H4R7M	ELECTRO 4.7UF 50WV		S
C7 ,8			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		J
C7 ,8			CE04LW1H4R7M	ELECTRO 4.7UF 50WV		S
C9 ,10			CC45FSL1H221J	CERAMIC 220PF J		
C11 ,12			CF92FV1H123J	MF 0.012UF J		
C13 ,14			CF92FV1H332J	MF 3300PF J		
C15 ,16			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		J
C15 ,16			CE04LW1H4R7M	ELECTRO 4.7UF 50WV		S
C17 -40			C91-0749-05	CERAMIC 220PF K		
C41 ,42			CE04KW1V100M	ELECTRO 10UF 35WV		J
C41 ,42			CE04LW1V100M	ELECTRO 10UF 35WV		S
C43 ,44			CC45FSL1H560J	CERAMIC 56PF J		
C45 ,46			CE04KW1C101M	ELECTRO 100UF 16WV		J

L:Scandinavia K:USA P:Canada
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Y:AAFES(Europe) X:Australia M:Other Areas

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NO.10

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C45 ,46			CE04LW1C101M	ELECTRO 100UF 16WV		S
C48 ,49			CK45FF1H103Z	CERAMIC 0.010UF Z		
C50			C91-0769-05	CERAMIC 0.01UF K		
C51 -54			CE04KW1V100M	ELECTRO 10UF 35WV		J
C51 -54			CE04LW1V100M	ELECTRO 10UF 35WV		S
C55 ,56			CC45FSL1H560J	CERAMIC 56PF J		
C57 ,58			C90-3225-05	ELECTRO 10UF 16WV		J
C59 -62			CE04KW1V100M	ELECTRO 10UF 35WV		J
C59 -62			CE04LW1V100M	ELECTRO 10UF 35WV		S
C63 ,64			CC45FSL1H560J	CERAMIC 56PF J		
C65 ,66			CE04KW1V100M	ELECTRO 10UF 35WV		J
C65 ,66			CE04LW1V100M	ELECTRO 10UF 35WV		S
C67 ,68			CC45FSL1H560J	CERAMIC 56PF J		
C69 -74			CE04KW1V100M	ELECTRO 10UF 35WV		J
C69 -74			CE04LW1V100M	ELECTRO 10UF 35WV		S
C75 ,76			CC45FSL1H560J	CERAMIC 56PF J		
C77 ,78			CC45FSL1H101J	CERAMIC 100PF J		
C79 -82			CE04KW1V100M	ELECTRO 10UF 35WV		J
C79 -82			CE04LW1V100M	ELECTRO 10UF 35WV		S
C83 ,84			CC45FSL1H560J	CERAMIC 56PF J		
C85 -88			CE04KW1V100M	ELECTRO 10UF 35WV		J
C85 -88			CE04LW1V100M	ELECTRO 10UF 35WV		S
C89 ,90			CC45FSL1H560J	CERAMIC 56PF J		
C91 -94			CE04KW1V100M	ELECTRO 10UF 35WV		J
C91 -94			CE04LW1V100M	ELECTRO 10UF 35WV		S
C100			C91-0769-05	CERAMIC 0.01UF K		
C101,102			CE04KW1V100M	ELECTRO 10UF 35WV		J
C101,102			CE04LW1V100M	ELECTRO 10UF 35WV		S
C103,104			CC45FSL1H560J	CERAMIC 56PF J		
C105,106			CE04KW1V100M	ELECTRO 10UF 35WV		J
C105,106			CE04LW1V100M	ELECTRO 10UF 35WV		S
⚠ C130			C91-1439-05	FILM 0.01UF 250VAC		
C131-134			CK45FF1H103Z	CERAMIC 0.010UF Z		
C135			CE04EW1V102M	ELECTRO 1000UF 35WV		S
C135			CE04KW1V102M	ELECTRO 1000UF 35WV		J
⚠ C136			C91-1439-05	FILM 0.01UF 250VAC		
C151			CK45FB1H471K	CERAMIC 470PF K		
C152			CK45FB1H102K	CERAMIC 1000PF K		
C153-155			CK45FB1H471K	CERAMIC 470PF K		
C156,157			CK45FB1H102K	CERAMIC 1000PF K		
C158			CK45FB1H471K	CERAMIC 470PF K		
C159-161			C91-0753-05	CHIP C 470PF K		
C162			C91-0757-05	CERAMIC 1000PF K		
C165-168			CK45FF1H103Z	CERAMIC 0.010UF Z		
C169,170			CF92FV1H103J	MF 0.010UF J		
C201,202			CE04KW1H010M	ELECTRO 1.0UF 50WV		J
C201,202			CE04LW1H010M	ELECTRO 1.0UF 50WV		S
C203,204			CC45FSL1H221J	CERAMIC 220PF J		
C205,206			CF92FV1H473J	MF 0.047UF J		
C207-210			CC45FSL1H560J	CERAMIC 56PF J		
C211-214			CE04KW1H010M	ELECTRO 1.0UF 50WV		J
C211-214			CE04LW1H010M	ELECTRO 1.0UF 50WV		S
C215-218			C90-3225-05	ELECTRO 10UF 16WV		
C219,220			CE04KW1E470M	ELECTRO 47UF 25WV		J
C219,220			CE04LW1E470M	ELECTRO 47UF 25WV		S

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PARTS LIST

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NO.11

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C251-253			CE04KW0J331M	ELECTR@ 330UF 6.3WV		J
C251-253			CE04LW0J331M	ELECTR@ 330UF 6.3WV		S
C254,255			CK45FF1H103Z	CERAMIC 0.010UF Z		
C256			CK45FB1H471K	CERAMIC 470PF K		
C257			CK45FF1H103Z	CERAMIC 0.010UF Z		
C259,260			CE04KW1C101M	ELECTR@ 100UF 16WV		J
C259,260			CE04LW1C101M	ELECTR@ 100UF 16WV		S
C261,262			CK45FF1H103Z	CERAMIC 0.010UF Z		
C263,264			CE04KW0J331M	ELECTR@ 330UF 6.3WV		J
C263,264			CE04LW0J331M	ELECTR@ 330UF 6.3WV		S
C301,302			C90-3253-05	ELECTR@ 1UF 50WV		
C303,304			CE04KW1A101M	ELECTR@ 100UF 10WV		J
C303,304			CE04LW1A101M	ELECTR@ 100UF 10WV		S
C305			C90-3253-05	ELECTR@ 1UF 50WV		
C306			CK45FF1H103Z	CERAMIC 0.010UF Z		
C307,308			C90-3256-05	ELECTR@ 4.7UF 50WV		
C309			CK45FF1H103Z	CERAMIC 0.010UF Z		
C310			C91-0769-05	CERAMIC 0.01UF K		
C311,312			CE04KW1A101M	ELECTR@ 100UF 10WV		J
C311,312			CE04LW1A101M	ELECTR@ 100UF 10WV		S
C313,314			CK45FF1H103Z	CERAMIC 0.010UF Z		
C315			C91-0769-05	CERAMIC 0.01UF K		
C316			CK45FF1H103Z	CERAMIC 0.010UF Z		
C317			C91-0769-05	CERAMIC 0.01UF K		
C318			CK45FF1H103Z	CERAMIC 0.010UF Z		
C319			C90-3214-05	ELECTR@ 100UF 6.3WV		
C320			C90-1827-05	BACKUP 0.047F 5.5WV		
C321			CE04KW1A101M	ELECTR@ 100UF 10WV		J
C321			CE04LW1A101M	ELECTR@ 100UF 10WV		S
CN4	2B		E40-4161-05	FLAT CABLE C@NNCT@R		
CN5	1C		E40-4201-05	FLAT CABLE C@NNCT@R		
J1		*	E63-0072-15	PH@N@ JACK PH@N@		
J2 ,3		*	E63-0066-15	PH@N@ JACK TUNER,TAPE,MD,CD		
J4		*	E63-0067-15	PH@N@ JACK VIDE@,AV/AUX,ADPTER		
J5		*	E63-0091-05	PH@N@ JACK ADAPTER/IN,@MNI		
J6		*	E63-0093-05	PH@N@ JACK VISUAL M@NIT@R		
J7		*	E63-0094-05	PH@N@ JACK VIDE@ IN/@UT,AV AUX		
⚠ J9			E03-0108-05	AC @UTLET	ME 9	
⚠ J9			E03-0108-05	AC @UTLET	M 8	
⚠ J10			E03-0109-05	AC @UTLET	T 9	
⚠ F11 ,12			F05-2525-05	FUSE (SEMK@) (250V T2.5A)	M	
⚠ F12			F05-2525-05	FUSE (SEMK@) (250V T2.5A)	X	
⚠ F12 ,13			F05-2525-05	FUSE (SEMK@) (250V T2.5A)	TE	
J17			F10-0937-03	SHIELDING PLATE		
CN10-13			J13-0075-05	FUSE CLIP	M	
CN10,11			J13-0075-05	FUSE CLIP	XTE 9	
CN10,11			J13-0075-05	FUSE CLIP	X 8	
CN14,15			J13-0075-05	FUSE CLIP	TE 9	
L1 ,2			L40-1011-17	SMALL FIXED INDUCT@R(100UH,K)		
T1		*	L07-0720-05	P@WER TRANSF@RMER	M	
T1		*	L07-0721-05	P@WER TRANSF@RMER	XTE 9	
T1		*	L07-0721-05	P@WER TRANSF@RMER	X 8	
T1		*	L07-0813-05	P@WER TRANSF@RMER	M	S

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NO.12

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
T1		*	L07-0814-05	P@WER TRANSF@RMER	XTE 9	S
T1		*	L07-0814-05	P@WER TRANSF@RMER	X 8	S
X1			L78-0267-05	RES@NAT@R 4.194MHz		
R198			RD14NB2E470J	RD 47 J 1/4W		
R259-262			RD14NB2E151J	RD 150 J 1/4W		
VR1 ,2		*	R10-3054-05	P@TENTI@METER(10K) BASS,TREBLE		
VR3		*	R05-3037-05	P@TENTI@METER(10K) BALANCE		
⚠ K1			S76-0002-05	MAGNETIC RELAY		
S1 -8			S40-1064-05	PUSH SWITCH KEY B@ARD		
⚠ S10			S62-0001-05	SLIDE SWITCH V@LTAGE SELECT@R	M	
⚠ S11			S31-2322-05	SLIDE SWITCH V@LTAGE SELECT@R	M	
S9			T99-0530-05	R@TARY ENC@DER INPUT SELECT@R		
D1 -15			HSS104	DI@DE		
D1 -15			1SS133	DI@DE		
D17			HSS104	DI@DE		
D17			1SS133	DI@DE		
D19 -25			HSS104	DI@DE		
D19 -25			1SS133	DI@DE		
D26			KBP02ML-6127	DI@DE		
D31 -39			HSS104	DI@DE		
D31 -39			1SS133	DI@DE		
D40			HZS5.6N(B2)	ZENER DI@DE		
D40			RD5.6ES(B2)	ZENER DI@DE		
D41 -45			HSS104	DI@DE		
D41 -45			1SS133	DI@DE		
D51 ,52			HZS13N(B2)	ZENER DI@DE		
D51 ,52			RD13ES(B2)	ZENER DI@DE		
D53 -55			HSS104	DI@DE		
D53 -55			1SS133	DI@DE		
D251-254			HSS104	DI@DE		
D251-254			1SS133	DI@DE		
D255,256			HZS5.6N(B2)	ZENER DI@DE		
D255,256			RD5.6ES(B2)	ZENER DI@DE		
D257,258			HSS104	DI@DE		
D257,258			1SS133	DI@DE		
ED1		*	10-BT-120GK	INDICAT@R TUBE		
IC1		*	TC9274N-003	IC(ANAL@G SWITCH)		
IC2			NJU7313L	IC(ANAL@G SWITCH)		
IC2			TC9164N	IC(16CH BILATERAL SELECT@R SW)		
IC3 ,4			TC9213P	IC(2CH ELECTR@NIC V@LUME)		
IC5			NJM4565D-D	IC(@P AMP X2)		
IC5			XRA15218-DX	IC(@P AMP X2)		
IC6			NJM4565L-D	IC(@P AMP X2)		
IC7			NJM4565D-D	IC(@P AMP X2)		
IC7			XRA15218-DX	IC(@P AMP X2)		
IC8 -10			NJM2058D	IC(@P AMP X4)		
IC11,12			NJM4565L-D	IC(@P AMP X2)		
IC13			CXA1558L	IC		
IC101		*	UPD78042GF-039	IC(MICR@PR@CESS@R)		
IC102			MN1381-R(TA)	IC(V@LTAGE DETECT)		
IC102			S-80740AL	IC(V@LTAGE DETECT@R)		
Q1			2SC3940A(R,S)	TRANSIST@R		
Q2			2SA1534A(R,S)	TRANSIST@R		

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NO.13

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Q101			2SC1740S(Q,R)	TRANSISTOR		S
Q101			2SC2458(Y,GR)	TRANSISTOR		J
Q101			2SC2785(F,E)	TRANSISTOR		S
Q101			2SC3311A(Q,R)	TRANSISTOR		J
Q102			2SC2003(L,K)	TRANSISTOR		
Q103			2SC1740S(Q,R)	TRANSISTOR		S
Q103			2SC2458(Y,GR)	TRANSISTOR		J
Q103			2SC2785(F,E)	TRANSISTOR		S
Q103			2SC3311A(Q,R)	TRANSISTOR		J
Q104-109			DTC124ES	DIGITAL TRANSISTOR		
Q104-109			UN4212	DIGITAL TRANSISTOR		
A1			W02-1174-05	ELECTRIC CIRCUIT MODULE		
		*	X25-5470-11	REMOTE CONTROL UNIT		8

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J : JAPAN MADE
S : SINGAPORE MADE
8 : A-87
9 : A-97

⚠ indicates safety critical components.

A-87/97

SPECIFICATIONS

Rated power output at the STEREO opration
(IEC/NF) from 63 Hz to 12,500Hz, 0.7% T.H.D.
at 8Ω ..... 85W+85W
(DIN) 1,000Hz at 8Ω ..... 85W+85W

Power output at the Surround opration
Front (1kHz, 0.08% T.H.D. at 8Ω) .....85W+85W
Omni (1kHz, 0.5% T.H.D. at 8Ω) .....25W+25W
Center (1kHz, 0.5% T.H.D. at 8Ω) 25W
Rear (1kHz, 0.5% T.H.D. at 8Ω) .....25W+25W

Total harmonic distortion (1kHz, 8Ω).....0.02% at 40W

Signal to noise ratio (IHF '66)
PHONO (MM) 72dB
CD/LD, TAPE 90dB
Signal to noise ratio (DIN weighted at 50mW output)
PHONO (MM) 56dB
CD/LD, TAPE 57dB
Input sensitivity/impedance
PHONO (MM) 2.5mV/47kΩ
CD/LD, TAPE 200mV/47kΩ
Tone controls
BASS .....±10dB (at 100Hz)
TREBLE .....±10dB (at 10kHz)

VIDEO inputs/outputs
(composite) 1Vp-p/75Ω

General
Power consumption..... 280W
Dimensions .....W : 360 mm
H : 129 mm
D : 378 mm
Weight (net) 11.3kg
AC outlets (switched) ..... 1 (Total 200W max)

Kenwood follows a policy of continuous advancements in development.
For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement.
Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an.
Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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